

NEWS WIRE



DYP

Padmashree Dr D Y Patil Institute of
Engineering, Management and
Research, Akurdi, Pune-44

TECH ERA

DYPIEMR

- 2015 -

COMPUTER DEPT

INDEX

- VISION & MISSION
- PEO'S & PO'S
- WORKSHOP
- ACADEMIC EXCELLENCE
- PAPER PUBLICATIONS
- EVENTS
- THE TEAM

FROM HOD'S DESK



Prof. Mrs. P. P. Shevatekar
Assistant Professor & HOD

Department of Computer Engineering of DYPIEMR offers a broad undergraduate Pune university curriculum, based on theoretical foundations of computer engineering, practical applications and designing and implementation of the products and software's. A continued effort on building and improving infrastructure whether physical or intellectual is something that is a part of us. We have added a new building with well-equipped class rooms, laboratories and centralized computing facility. The Department aims at providing high quality training to students through the latest in computer technology. The process of learning is extremely important in life. Therefore we do not aim to make our students walking manuals of any language or package. Instead, they are given a strong foundation in computer science and problem-solving techniques, and are made adaptable to changes. The motto of our department is to provide quality education. Thus we are confident that our Engineers will emerge as assets not only to this institution and to the organization they belong, but also to the country at large.

The Department regularly organizes a series of lectures by academicians and professionals of the highest repute, which lay stress on the latest innovative technologies in the field of Computer Engineering.

The Department has a team of highly experienced and motivated faculty members who are in the process of tuning the young minds to make them globally competitive.

I congratulate the team of faculty members and the students for their brilliant and original efforts.

I wish all the Students and Faculty a great academic career !!!!

FROM Principal's DESK

Dr. Mrs. Anupama V. Patil
Principal



I welcome you to Pad. Dr. D.Y. Patil Institute of Engineering, Management & Research, Akurdi, Pune, Maharashtra, India.

The Institute is established under Prestigious Dr. D. Y. Patil Pratishthan, one of the pioneers of Education in Maharashtra. It is approved by All India Council of Technical Education & offers Bachelor of Engineering degree in Mechanical , Electronic & Telecommunication, Civil, Computer & Chemical Engineering.

The Centralised Training & Placement Cell of Dr. D. Y. Patil Pratishthan assures placement to all eligible students in reputed Industries & organisations. Alongwith placements, this cell also organises Training sessions for Personality development, aptitude tests,interview techniques & communication skills.

I assure all my students & parents the most creative & conducive environment required for transformation of a student into an allround Engineering Professional which will empower him to face the challenges of the Professional world.

VISION

VISION



“To become center of excellence in field of computer engineering in academics and research.”

MISSION

The Department of Computer Engineering endeavors to train students for their professional career and higher studies by providing innovative teaching aids, state-of-the-art research environment and opportunities for learning in Computer Engineering with leadership skills, empowering them to serve needs of industry and society.

MISSION



PROGRAMME EDUCATIONAL OBJECTIVES

- * To adapt to technological advancements by engaging in lifelong learning with leadership qualities, professional ethics and skills.
- * To promote students to have the ability to specify, design, develop and maintain reliable and efficient software.
- * To prepare graduates to become effective technical communicators in multidisciplinary teams providing technical leadership to create innovative computing solutions for challenging real life problems.



PROGRAMME OUTCOMES (PO's)

Students in the Programme will attain:

- * Apply the knowledge of computing, mathematics, engineering fundamentals, and an engineering specialization to the solution of various engineering problems.
- * Ability to identify, formulate and analyze the problems and reach the conclusions using principals of engineering science.
- * An ability to design, implement and evaluate a system, process, component and programme to meet desired needs within realistic constraints with suitable consideration for the public health and safety, and the cultural , societal and environmental considerations
- * An ability to investigate, formulate, analyze and provide appropriate solutions to the engineering problems by interpreting of data using research based knowledge and research methods
- * An ability to use modern engineering tools and technologies including prediction and modelling necessary for complex engineering practices.
- * An ability to identify and assess the local and global impact of professional engineering practices on individuals, organizations, society and environment.

- * An ability to understand the environmental issues and provide sustainable solutions.
- * Ability to fulfil professional and ethical responsibilities.
- * An ability to function effectively as an individual or as a team member to accomplish a goal in multidisciplinary setting.
- * Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentations, make effective presentations and give and receive clear instructions.
- * Demonstrate knowledge and understanding of the engineering and management principals to manage projects in multidisciplinary environment.
- * An ability to keep abreast with contemporary technologies through lifelong learning.

SECOND YEAR

RANK	NAME OF STUDENT	MARKS (OUT OF 1500)	PERCENTAGE
1	SAKAAR THAPLOO	1019	67.99
2	BANGALE MINAKSHEE	1019	67.99
3	SHUBHIKA JAIN	1018	67.88
4	PAL MOHUYA RANJIT KUMAR	998	66.53
5	KALE KAJAL SUBHASH	996	66.4
6	CHODHARY SAVITA ROHITASH	996	66.4

THIRD YEAR

RANK	NAME OF STUDENT	MARKS (OUT OF 1500)	PERCENTAGE
1.	DIVYA PATEL & TANISHA SARRAF	1028	68.53
2.	ABHIJEET NAGARSOGE	993	66.2
3.	SAAD MEMON	992	66.13
4.	RESHMA MANGODE	979	65.27
5	DEEPIKA RAJPUT	969	64.6



SAAD MEMON, STUDENT OF IIIRD YEAR , WON THE FIRST PRIZE IN BHARTI VIDYAPEETH, PUNE .

SAAD MEMON, STUDENT OF IIIRD YEAR, WON THE FIRST PRIZE IN MAHARASHTRA & GOA REGION CONDUCTED BY CSI STUDENTS CHAPTER.



SAAD MEMON, STUDENT OF IIIRD YEAR, WON THE FIRST PRIZE IN NATIONAL TECHNICAL EVENT IN NASHIK HELD BY SANDIP FOUNDATION.

SAAD MEMON, STUDENT OF IIIRD YEAR, WON THE SECOND PRIZE AT ALL INDIA LEVEL AT CHENNAI.



MOBILE REPAIRING



Guest Lecture was conducted on "Mobile Repairing" on 5th January, 2015. The Speaker of the day were Mr. Mhendra Barmukh CEO of MAHENDRA TECHNICA.

DATABASE

Guest Lecture on Database was conducted on 20th June 2014.



PREPARATION STRATEGY FOR CRACKING CIVIL SERVICES EXAMINATION



An eye opening session on "Preparation strategy for cracking Civil Services Examination" by Mr. Ajay Sondhi, Director of Abhimanu IAS Study Group was conducted on 10th January 2014.

INDUSTRY ORIENTATION PROGRAM

An interesting session Industry Orientation Program was conducted by Mr. Raghu Nair, training head-Forbes Marshall on 6th January 2014.



LATEST INDUSTRIAL TRENDS IN DATABASES AND ITS ADMINISTRATIONS



An expert talk on "Latest Industrial Trends in Databases and its Administrations" on 10th January 2015. The Speaker of the day were Mr. Nagesh Suryawanshi and Mr. Kamal Dixit.

BIG DATA AND HADOOP

An expert talk on "Big Data and Hadoop" was conducted on 6th January 2015. The Speaker of the day was Mr. Amol Patil.



LATEX



A workshop on Latex was conducted on 6th January 2014.

INDUSTRIAL VISIT TO IIT MUMBAI

Students of 2nd year and 3rd year of Computer Engineering had attended the "Tech Fest 2015" in IIT Mumbai on 3rd January 2015.



PARAMYUVA 2K14



Computer department organized "PARAMYUVA 2K14"-Annual Departmental Technical event held on 10th Feb to 13th Feb 2014. Winner of the Technogyam were:
1. Divya Patel | 2.Riya Dhomne | 3.Aishwarya Bhurke
Winner of the Prastuti(PPT) were Jairam & Abhijeet.
Winner of the Code Genesis was Dipika Rajput.

TECHNICAL QUIZ BY COMPSA

Technical Quiz for all the students of S. E and T.E (Computer Engineering) was conducted by COMPSA on December 27th 2014. Winners are Gayatri, Poorti, Siddhant .



- * Mr. Naresh Kumar Mustary published paper on “Indoor Navigation For Android Devices “ in International Journal of Modern Trends in Engineering and Research Vol-02, Feb 2015.
- * Mr. Naresh Kumar Mustary published paper on “ Reinnoation and Comparison of Mobility Management Approaches for Mobile IP Networks “ in International Journal of Innovation in Computer Science an Engineering, 2014.
- * Mr. Naresh Kumar Mustary published paper on “ A Performance Evaluation of VANET for ITS “ in International Journal of World Journal of Science & Technolgy, 2012.
- * Mr. Naresh Kumar Mustary published paper on “Beacon-based Clustering Algorithm for Prolonging the Cluster Lifetime in VANET’S “ in International Journal of World Journal of Science & Technolgy, 2012.
- * Mr. Naresh Kumar Mustary published paper on “ Implementation of a Novel Optimized Trust Based Search Approach for the Peer to Peer(P2P) Platform” in International Journal of Science and Technology, 2012.
- * Mrs. P. P. Shevatekar, Ms A. S. Melshetti presented a paper on “ Idea Load Distribution in Locally distributed systems for effective utilization of computational power” at National conference on Advances in Engineering, Management and General Sciences (NCAEMS), Pune 2011.
- * Ms. Shilpa R. Muley, Mrs. P. P. Shevatekar presented a paper on “Development of Authentication of User Applications using smart security” at International conference on advances in Computing and management (ICACM), 2012.
- * Mrs. P. P. Shevatekar, Ms. S. R. Muley, Ms. A. S. Malshetti presented a paper on “Data Warehouse Architecture” at National Conference on Data Ware Housing and Data Mining (Mineware-2011).
- * Prof. S. R. Dhore, Mrs. P. P. Shevatekar published a paper on “Application of Process Redistribution in LAN for effective utilization of computational power “National Conference on Distributed Computing (NCDC 06).

- * Ms. Ketaki Bhojar and Mrs. Manasi Kulkarni published Paper on “Feature Level Fusion Based Multibiometric Cryptosystem using Fuzzy Vault for Wired Network” in IJATES in the year March 2015.
- * Ms. Ketaki Bhojar and Mrs. Manasi Kulkarni published Paper on “Feature Level Fusion Based Multibiometric Cryptosystem using Fuzzy Vault for Wired Network” at the International Conference on Recent Trends in engineering Science and Management at JNU University on 15 March,2015.
- * Ms. Ketaki Bhojar and Mrs. Manasi Kulkarni published Paper on “Review for Multibiometric Cryptosystem using Fuzzy Vault for Wired Network” in IJCSIT in the year 2014.
- * Ms. Ketaki Bhojar ,Ms. Harshada Gurav, Ms. Bushera Hannure and Ms. Sheetal Chavan published Paper on “ Biometric Folder Locking System Using Fuzzt Vault for Face “ at ETCSIT Conference in 2012.
- * Ms. Ketaki Bhojar published Paper on”Biometric Folder Locking System using Fuzzy Vault for Face” in the Journal IJCA in November 2012.
- * Ms. Shraddha Suratkar presented a project on” Secure Authentication System by 3-D & Graphical Passwords” at International Conference on Information , Knowledge & Research in Engineering, Technology &Sciences(ICKIR-ETS) , March 2012.
- * Ms. Shraddha Suratkar presented a Survey on “ Database Forensic Tools Challenges and Metadata” in IJIRS Journal , Dec 2013.
- * Ms. Shraddha Suratkar presented a project on “ Role of Log Centralized Metadata in Design of an Open Source Database Forensics Tool” at Third Post Graduate Symposium for Computer Engineering (CPGCON-2014) organized by Matoshri Engineering College, Nasik in Elsevier.com Journal , Feb 2014.
- * Ms. Shraddha Suratkar presented a project on “Role of Log Based Metadata in Forensic Analysis of Database Attacks” at an International Conference on Industry Automation and Computing(ICIAC 2014) organized by JIT Nagpur in IJERA , March 2014.
- * Ms. Shraddha Suratkar presented a project on “Role of Meta in Forensic Analysis of Database Attacks ” at 4th IEEE International Advance Computing Conference (IACC 2014) , organized by ITM University Gurgaon, India, March 2014

- * Ms. Nalini Yadav and Dr. Rajeswari Kannan published a paper "Usage of based association for removal of noisy attributes" at International Journal of Computer Application -2015
- * Ms. Nalini Yadav and Dr. Sudeep Thepade published a paper "Assessment of Similarity Measurement Criteria in Thepade's Sorted Ternary Block Truncation Coding (TSTBTC) for Content Based Video Retrieval" at ICCICT, IEEE Conference-2015.
- * Ms. Nalini Yadav and Dr. Sudeep Thepade published a paper "Novel Efficient Content Based Video Retrieval Method using Cosine-Haar Hybrid Wavelet Transform with Energy Compaction" at ICCUBAE, IEEE Conference -2015.
- * Ms. Nalini Yadav and Dr. Sudeep Thepade published a paper "Partial Energy of Hybrid Wavelet Transformed Videos for Content Based Video Retrieval with various Similarity measures using Cosine, Haar and Walsh Transforms" at GCCT, IEEE Conference-2015.
- * Ms. Nalini Yadav and Dr. Sudeep Thepade published a paper "Comprehensive Performance Comparison of Fourier, Walsh, Haar, Sine and Cosine Transforms for Video Retrieval with Partial Coefficients of Transformed Video" at International Journal of Computer Application -2015.
- * Mrs. Amruta M. Chore and Shrikant J. Honade published paper on "VLSI Implementation of Fractional-N Phase Locked Loop Frequency Synthesizer" in International Journal of Engineering Research and Applications on Jul-Aug 2013.
- * Mrs. Amruta M. Chore and Shrikant J. Honade published paper on "LOW POWER FRACTIONAL-N PLL FREQUENCY SYNTHESIZER USING 45NM VLSI TECHNOLOGY" in the International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering in April 2013.
- * Ms. Shivganga Udhan, and P.R. Futane published paper on "Hand Motion Tracking for Alphabet Recognition using ANN" in International Journal of Computer Application (IJCA) in Dec 2013.
- * Ms. Shivganga Udhan and P.R. Futane published paper on "Alphabet Recognition using Hand Motion Track" in International Journal of Engineering Research and Application (IJERA) in Jan-Feb 2013.
- * Mrs. Tanuja Lonhari, Mrs. D. A. Phalke published paper on "Improving performance of SPARQL-based repository filtering using WordNet for semantic web service discovery" in the International Conference on Recent Trends in Engineering Sciences ICRTES '14 in March 2014.

- * Mrs. Tanuja Lonhari, Mrs. D. A. Phalke published paper on “Repository filter with semantic heterogeneity reconciliation using WordNet for efficient semantic web service discovery” in International Conference on Recent Trends in Engineering Sciences ICRTES '14 in March 2014.
- * Manisha Bhende, Suvarna Patil , and Sanjeev Wagh, published paper on “Lifetime Maximization in Heterogeneous Wireless Sensor Network Based on Metaheuristic Approach” in Proceedings of the 3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2014 Advances in Intelligent Systems and Computing .
- * Suvarna Patil, Manisha Bhende, PG Student, Computer Department, published paper on “Comparison and Analysis of Different Mutation Strategies to improve the Performance of Genetic Algorithm” in in (IJCSIT) International Journal of Computer Science and Information Technologies.
- * Suvarna Patil and Manisha Bhende published paper on “A Survey on Genetic Algorithm in Wireless Sensor Network” in International Journal of Advances in Computing and Management in July- Dec 2014.
- * Suvarna Patil and Manisha Bhende published paper on “Increasing Lifetime of Heterogeneous Wireless Sensor Network Using Improved Ant Colony Optimization” in Proceedings of Third Post Graduate Conference on “Computer Engineering in 2014.



Inaugural function of “CSI Students chapter”
On January 13, 2015 “CSI Students chapter” was inaugurated in
Computer Engineering Department.

We had Mr. V.P.Kulkarni , Mr.Mayur Tendulkar, Mr.Anand T as guests of honour .Mrs. Dr.A.V.Patil Principal of our college,
Mrs. P. P. Shevatekar HOD of Computer Department as the host
of Inaugural Ceremony.

(COMPSA) Computer Student Association

On 14th July , 2014 COMPSA was inaugurated. The mission of COMPSA is to provide an accredited dynamic scholarly environment, where in students learn independently and in collaboration with others to develop professional, communications and leadership abilities to prepare them for a career as a professional Computer Engineer



Committee Members of COMPSA are:

1. Mr. Neeraj N. Ghongade - President
2. Ms. Aishwarya S. Bhurke - Vice President
3. Mr. Vaibhav s. Prajapati - Finance Committee Head
4. Mr. Saad Meman - Technical Committee Head
5. Ms. Riya P. Dhohne - Cultural Committee Head
6. Mr. Arvind Pawar - Sports Committee Head
7. Ms. Swati Sonar - Art Committee Head
8. Mr. Karan S. Sangle - Publicity Committee Head

PARENT TEACHER MEET

The department of computer Engineering has arranged the Parents Teacher's Meet on 20th Feb, 2015 for the S.E and T.E. students. The Parents' Meet was organised to improve the overall performance of students technically as well as on personal front. Personal interaction with parents definitely imparts caring attitude that DYPIEMR believes in. Head of the Department, Prof Mrs. P.P. Shevatekar summarized the gist of Academic Results, Training and Placement cell in the college, co-curricular activities and other courses conducted in the college. It was an interactive session as all the parents interacted with the respective class teachers and subject teachers.

Everything, when reduced to its most simple form, presents itself as a choice. Either a Yes or a No. A 1 or a 0. This is what life is all about. The choices that you make. And that's how a machine functions. The basic idea is to write a program that compiles and works like a charm. And life is no different. We are going to make mistakes, but we will have time to correct them or learn from them and we have to make sure that we utilise that time and fix all the errors. Because in the end, there will come a point where any change will make won't matter the way it should have. The idea is to correct all your mistakes in the given amount of time and run one final compilation so that when you look back at each and everything you've done, you'll see the reason behind it and know what went wrong where. One final compilation that will make sure that every ounce of sweat and blood you shed was worth the final output.

We are going to come across a lot of opportunities in the time ahead. We are going to have to make a lot of choices. We will have to decide. Are we a 0 or a 1! Are we going to take the risk and aim for something higher or are we going to decline the chance of a lifetime and take the safe way out.

I'll be very frank for the next couple of minutes and let you know that coding and life aren't very different from each other. Every line of code that we type is for a reason, we expect a certain condition to be fulfilled or an error to be avoided or a basic package to be included. There's a syntax and it has to be followed. The indentation is left to us.

There are 2 types of coders, the ones who follow indentation and the ones who don't. The ones who don't are the ones who scroll up every five minutes to see where the last curly bracket was opened and the ones who do are the ones who can see the Y axis symmetry and use it to their advantage. So we are going to have to decide what kind of a human being we want to turn out to be? The one who goes back to the past to remember what he/she had started or the one who will remember their mission and go ahead without wasting time.

Our time on this planet is limited and we have to utilize it efficiently. We are supplied with a limited amount of resources to make everything work perfectly and the ones who manage to do that are the efficient ones. Same goes for coding, the idea is to use the minimum resources to produce a working result. That's what we call an efficient program.

---By

Rajat Srivastava

Scala is a programming language for general software applications. Scala has a full support for functional programming and a very static type system.

This means it allows programs to be very concise and smaller in size than other general purpose programming languages.

The name Scala is a portmanteau of "scalable" and "language", signifying that it is designed to grow with the demands of its users.

The design of scala started in 2001 and was completed in 2003. Martin Odersky was the person behind the development of Scala.

Many of scala's design decisions were inspired by the criticism of shortcomings of Java.

Like java, scala is also an object oriented language and uses a curly-brace syntax reminiscent of the C programming language.

Unlike java, Scala has many features of functional programming languages like Scheme, Standard ML and Haskell, including currying, type inference, immutability, lazy-evaluation and pattern matching.

The "Hello World" program written in Scala has the form:

```
object HelloWorld extends App {  
    println("Hello, World!")  
}
```

Program should be saved in a file named HelloWorld.scala

It can be compiled from the command line :

```
$ scalac HelloWorld.scala
```

To run it:

```
$ scala HelloWorld
```

Unlike the stand alone Hello World application for Java, there is no class declaration and nothing is declared to be static; a singleton object created with the object keyword is used instead.

As mentioned above, Scala has a good deal of syntactic flexibility, compared with Java. The following are some examples:

- * Semicolons are unnecessary, lines are automatically joined if they begin or end with a token that cannot normally come in this position, or if there are unclosed parentheses or brackets.
- * Any method can be used as infix operator.
- * Scala distinguishes between no-parentheses (def foo = 42) and empty parentheses (def foo() = 42) methods.



History

Python was developed by Guido van Rossum in the late eighties and early nineties at the National Research Institute for Mathematics and Computer Science in the Netherlands.

Python is derived from many other languages, including ABC, Modula-3, C, C++, Algol-68, SmallTalk, and Unix shell and other scripting languages. Python is copyrighted. Like Perl, Python source code is now available under the GNU General Public License (GPL). Python is now maintained by a core development team at the institute, although Guido van Rossum still holds a vital role in directing its progress.

Features of Python:

Easy-to-learn

Easy-to-read

Easy-to-maintain

A broad standard library

Interactive Mode

Portable

Extendable

Databases

GUI Programming Scalable

Python files have extension .py

Syntax:

Basic Program in Python:

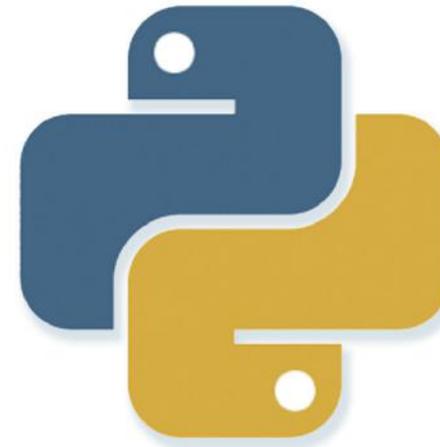
```
print "Hello, Python!"
```

Running a python program?

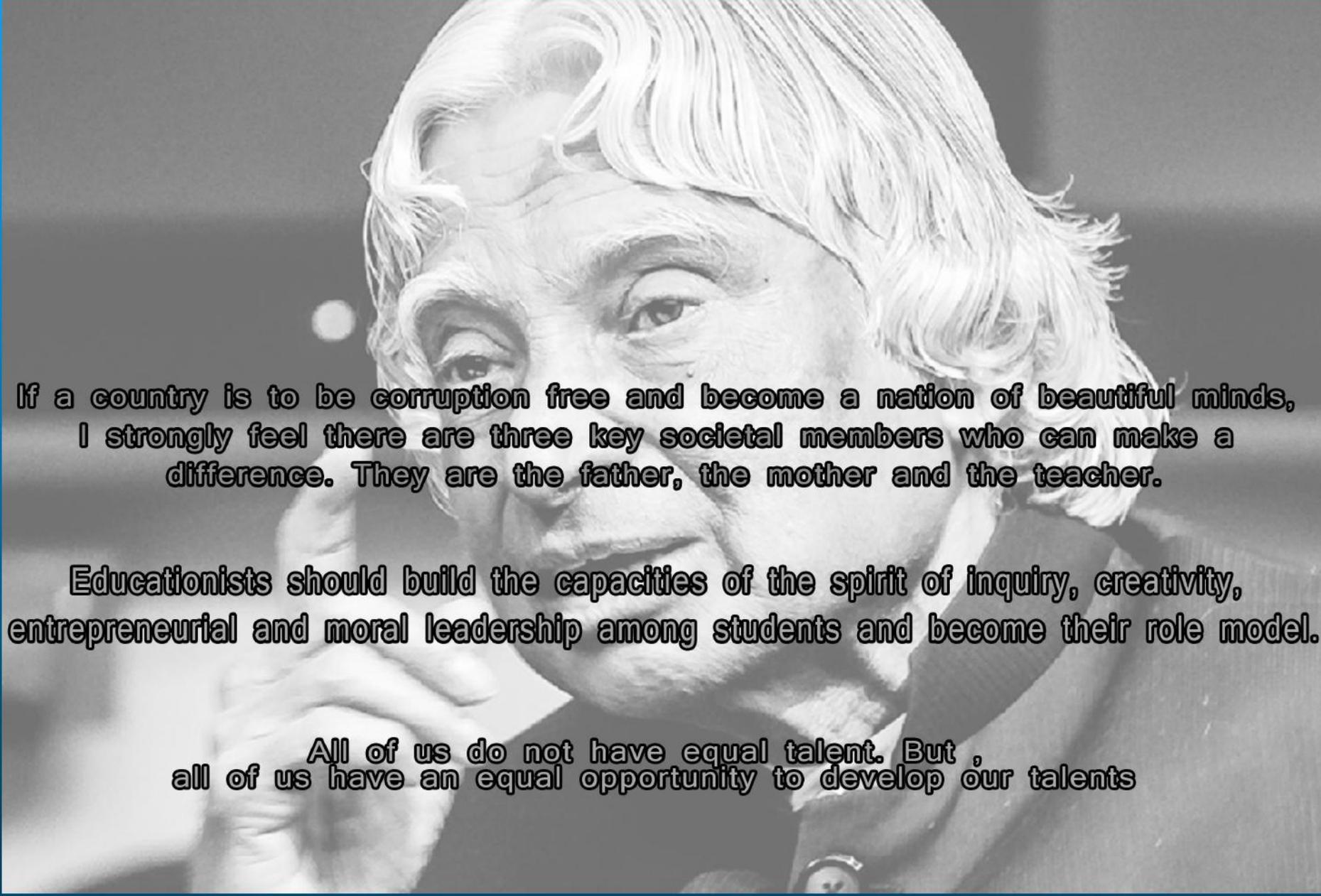
```
$ python test.py
```

Output:

```
Hello, Python!
```



TECHERA



If a country is to be corruption free and become a nation of beautiful minds, I strongly feel there are three key societal members who can make a difference. They are the father, the mother and the teacher.

Educationists should build the capacities of the spirit of inquiry, creativity, entrepreneurial and moral leadership among students and become their role model.

All of us do not have equal talent. But , all of us have an equal opportunity to develop our talents

NEWS WIRE

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- COMPUTER DEPARTMENT

