



ESTD-1992



040-66414455/63

Fax : 040-6678122

AVANTHI DEGREE & P.G. COLLEGE

(Affiliated to Osmania University & Recog.by Govt of Telangana)

3-4-875/a/1, Barkatpura, Hyderabad-27.(BLOCK- I)

Road No.12, Above Honda Show Room, (BLOCK- II), Narayanaguda, Hyd-20.

Python Workshop Report 2021-2022

Name of the Department	Department of Computers with IQAC
Name of the Event Organized	Sanketan-2022 (A 3 Day Workshop on Python - "Hands on for Beginners")
Date of Event Organized	14-06-2022 to 16-02-2022
Name of the Coordinator of the Event	Mr. T. Santhosh , Mr. M. Krishna Prasad & Mrs. K. Himabindu
Name of the Expert	Fazal Ur Rahman, Technical Head, MANAC Infotech (P) Limited
No. of Participants	87 (Students) , 03 (faculty)
Objective of the Event	<p>The main objective of this Python workshop was to Learn and motivate the students to enhance their programming skills.</p> <p>The workshop further aimed to increase the interest of the participants in other fields of computer science like web development, app development or any general purpose applications.</p>
Outcome of the Event	<p>During this three day Workshop, The learned trainer has contributed to the knowledge of all participants and also gave the future insight and the vision about the significance and importance of Python which can prove beneficial for better career opportunities.</p> <p>We express our gratefulness towards the Technical Head for sharing their knowledge with the participants.</p>



Lighting of Lamp





Prof.P.V.SUDHA , Professor, Dept of Computer Science & Engg, University College of Engineering



Dr.Y. Jaya Prada, Director-HR, Avanthi Gorup of colleges

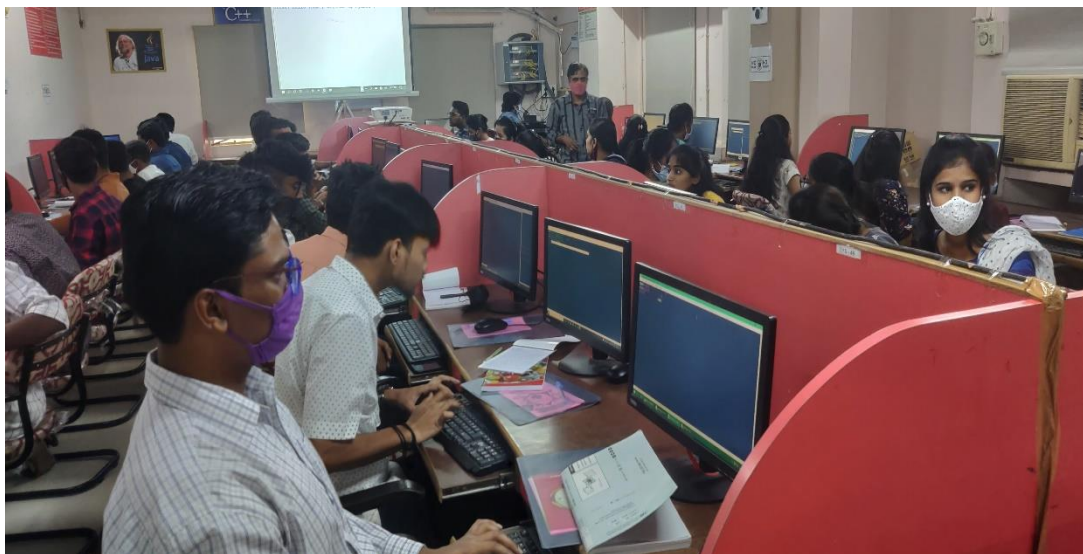
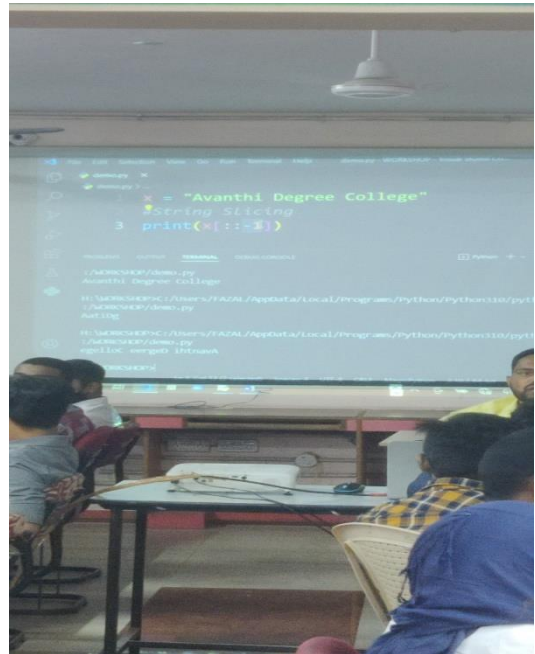
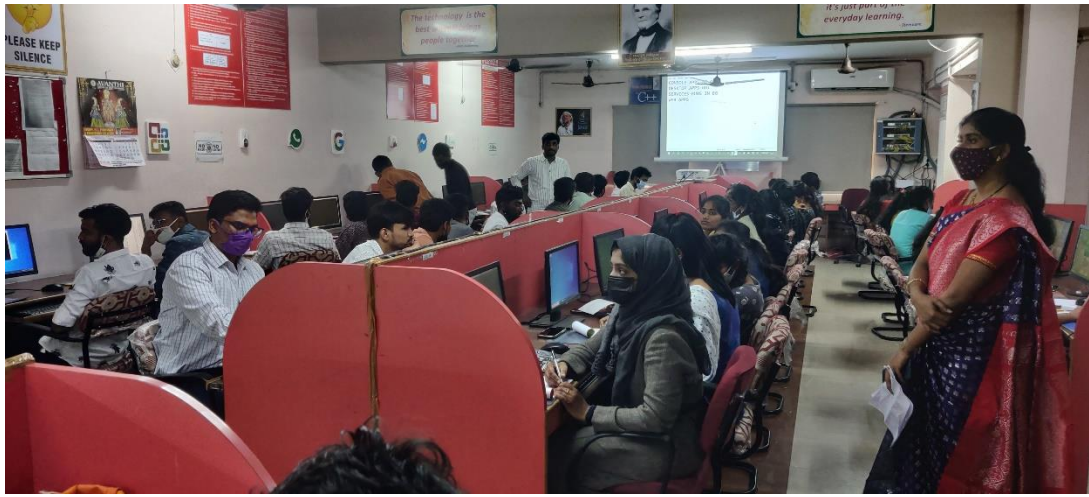


Kondal Reddy, Centre Manager & HR of MANAC Infotech(P) Limited

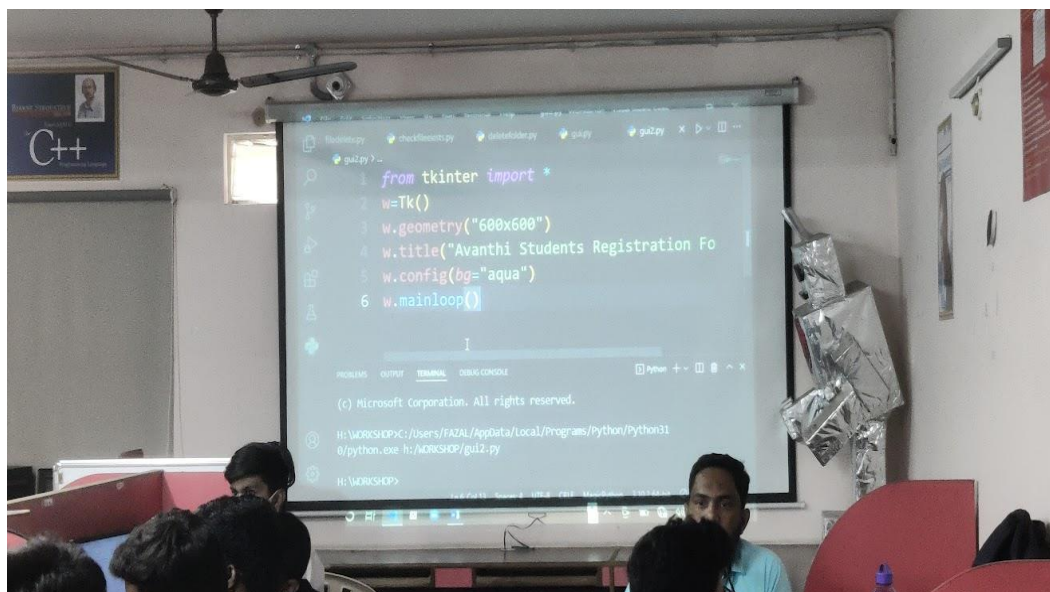
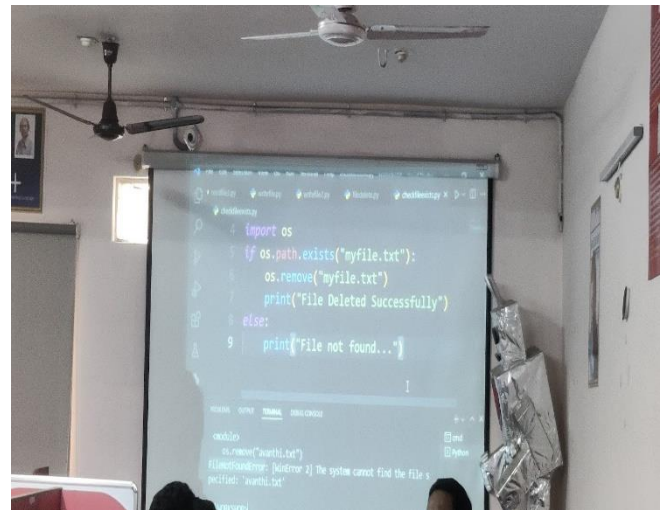
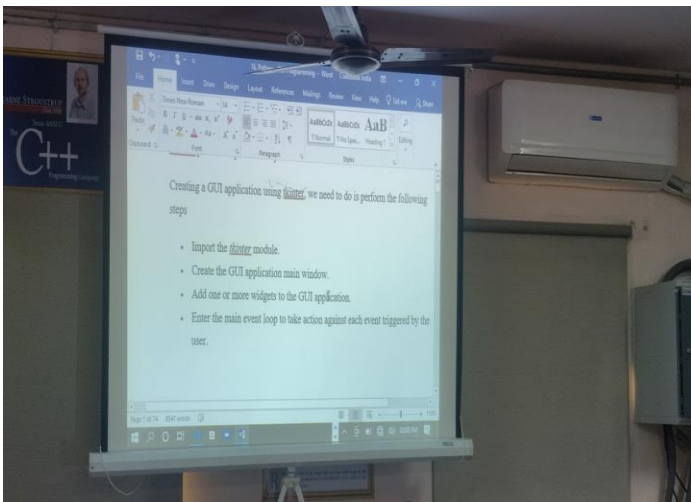
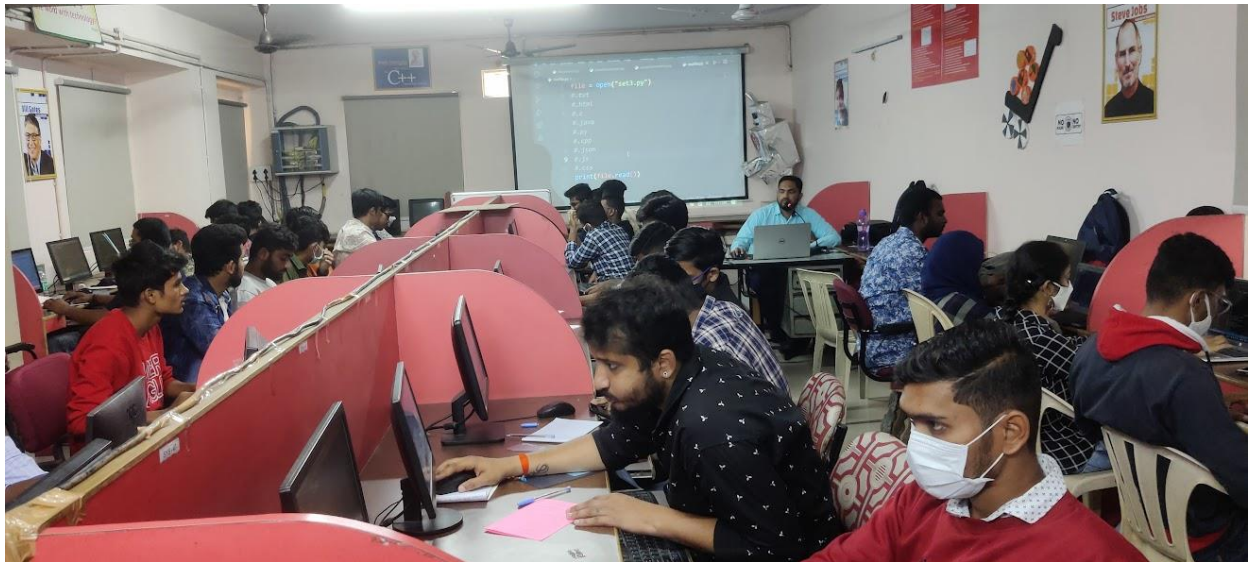


Felicitation of the Chief Guest by Director-HR









Valedictory



Dr. D. Venkat Rao, Principal, Avanthi Degree & P.G College



Felicitation of the Trainer by Principal

Participation Certificate Distribution To students



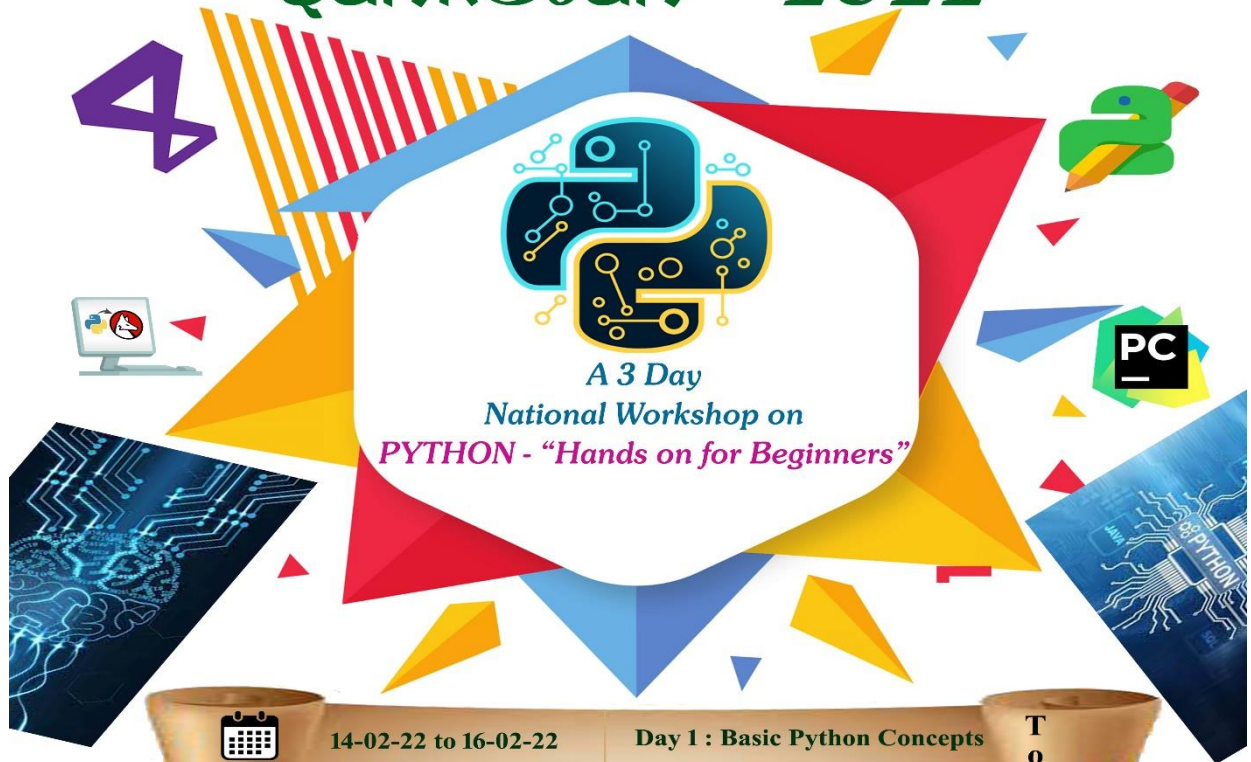
ANNEXUERS



AVANTHI
DEGREE & PG COLLEGE



इंटरनेट - २०२२



A 3 Day
National Workshop on
PYTHON - "Hands on for Beginners"

	14-02-22 to 16-02-22	Day 1 : Basic Python Concepts	T o p i c s
	Inaugural : 9:00 Am	Day 2 : Python Data Structures	
	Main Block Barkathpura, Hyd.	Day 3 : OOPs and Creating GUI Applications	

Organised by the Department of Computer Science in coordination with IQAC

Smt. M. Ganeswari President Avanathi Group of Colleges	Dr. M. Priyanka General Secretary Avanathi Group of Colleges	Mr. I. Shravan Kumar Managing Director Avanathi Group of Colleges	Mr. M V S S Nandeesh Vice President Avanathi Group of Colleges
Dr. Y. Jaya Prada Director - HR Avanathi Group of Colleges		Dr. D. Venkat Rao Principal Avanathi Degree & PG College	

DAY: 1

Introduction

1. Introduction to Python

Basic Python Concepts

2. Installing Python and PyCharm
3. Hello World Program in Python
4. Mathematical operations in Python
5. Strings in Python
6. Accepting input from the user in Python
7. Performing operations on a string in Python
8. Variables in Python
9. Operators in Python.
10. Writing our very first program in PyCharm

Control Structures in Python

11. If statement in Python
12. Elseif statement in Python
13. Introduction to lists in Python
14. List operations in Python
15. List functions in Python
16. Range function in Python
17. Code reuse and functions in Python
18. For Loop in Python
19. Boolean logic in Python
20. While loop in Python

DAY: 2

21. Introduction to Data Structures

22. String data Structure

- a. Different ways to create a string
- b. String indexing and string slicing
- c. string concatenation and string multiplication
- d. string unpacking
- e. splitting the data in different parts as per user
- f. capitalize() and title() and split()
- g. del, count(), find(), swapcase()
- h. reverse(),replace() and sort()
- i. string immutable

- g. Why sets not support indexing and slicing
- h. Add, remove and discard the elements to set data structure
- i. Issubset, issuperset and isdisjoint
- j. Union, interDAY and defference
- k. InterDAY_update and defference_update
- l. Symmetric_difference and symmetric_difference_update
- m. Conversions:
 - i. Converting given string data structure into set
 - ii. Converting given list data structure into set
 - iii. Converting given tuple data structure into set
 - iv. Converting given set data structure into string
 - v. Converting given set data structure into list
 - vi. Converting given set data structure into tuple

26. Dictionary Data Structure

- a. Creating and working with dictionary data structure in different ways
- b. Creating empty dictionary and working with empty dictionary
- c. Working with key and value pairs
- d. Dictionary mutable and unpacking dictionary
- e. Adding and deleting key and value pairs to the existing data structure
- f. Difference between pop and popitem operations
- g. Extracting only keys from the existing data structure
- h. Extracting only values from the existing data structure
- i. Clear and pop methods

DAY: 3

OOPs in Python

27. OOPs in Python
28. Inheritance in Python
29. Exception Handling in Python
30. File Handling in Python
31. Open a File on the Server
32. Read only parts of the file
33. Read lines
34. Close files
35. Python file write
36. Create a new file
37. Python delete file

38. Check if file exists:
39. Delete folder

Create GUI Apps in Python Using Tkinter

40. Tkinter: Hello world program
41. Tkinter: Using frames
42. Tkinter: Grid layout
43. Tkinter: Handling button clicks
45. Tkinter: Using classes

23. List Data Structure

- a. different ways to create a list
- b. creating and working with homogeneous lists
- c. creating an working with heterogeneous lists
- d. list indexing and list slicing
- e. list concatenation and list multiplication
- f. generating list by using range function
- g. list unpacking and list mutable
- h. creating nested lists & indexing nested lists
- i. python range() and xrange() functions
- j. python insert, append and extend
- k. remove, pop and clear
- l. python list ascending and descending
- m. converting given string data structure into list
- n. converting given list data structure into string
- o. creating list from user values

24. Tuple Data Structure

- a. creating a tuple in different ways
- b. creating and working with homogeneous tuple
- c. creating and working with heterogeneous tuple
- d. tuple indexing and tuple slicing
- e. tuple concatenation and tuple multiplication
- f. tuple unpacking and tuple immutable
- g. all, any, len and sort
- h. del keyword
- i. python tuple ascending and descending
- j. creating and working with nested tuples
- k. Conversions:
 - i. converting given string data structure into tuple
 - ii. converting given list data structure into tuple
 - iii. converting given tuple data structure into string
 - iv. converting given tuple data structure into list
- l. advantages of tuple over list data structure

25. Set Data Structure

- a. Creating and working with set data structure in different ways
- b. Normal sets and frozen sets
- c. Set mutable and unpacking set data structure
- d. Creating and working with sets with homogeneous elements
- e. Creating and working with sets with heterogeneous elements
- f. Creating empty sets and modifying the empty sets