

ASIA PACIFIC BCA COLLEGE
Affiliated to Gujarat University
Subject: SEM-5 CC-302 & CC-305 Python Programming

UNIT-2 Modules, Arrays, Functions, List, Tuples and Dictionaries

Theory:

1. What is Modules? How many types of Modules? How to create a user defined Module? Explain with example.
2. What is an array in Python? State and explain the advantages of using an array in python.
3. What are dictionaries in Python? Explain any 5 methods of dictionaries.
4. What is function? Explain with suitable example. Also differentiate between Function and a method.
5. Explain Anonymous Functions with suitable example.
6. What is List and Tuple? Explain with example. Write a difference between List and Tuple.

Practical:

1. Write a program to sort the array elements using bubble sort technique.
2. Write a program to generate prime numbers with the help of a function to test prime or not.
3. Create a dictionary that will accept cricket players name and scores in a match. Also we are retrieving runs by entering the player's name.
4. Create a program name "employee.py" and implement the functions DA, HRA, PF, and ITAX.
Create another program that uses the function of employee module and calculates gross and net salaries of an employee.
5. Write a program to demonstrate the use of Positional argument, keyword argument and default arguments.
6. Write a program to show variable length argument and its use.
7. Write a lambda/Anonymous function to find bigger number in two given numbers.
8. Create a decorator function to increase the value of a function by 3.