IC assignment 1:

1. # Python Program to Check if a number is divisible by 7 or not.
2. # Python Program to Find the Largest Among Three Numbers
3. #Python Program to Swap Two Variables
4. Check whether the expression (54+090+43)\*25 is equal to subtraction of (0.9\*8769)/0.8 and 8\*\*(5)

5)Calculate the total surface area and volume of the cylinder.

6)Convert miles to kilometres

7)Convert temperature in celcius to Fahrenheit.

### 8) What are \*args, \*\*kwargs?

### 9)  How do you reverse a list in Python? When is it useful?

### 10)  What are the data types of Python?

### 11) Write a Python Program to Find Vowels From a String.Output must be case insensitive.

### 12)Create a dictionary.Multiply all the values in a dictionary.

### 13)Create a user defined function to add all numbers in a tuple.

### 14)Python program to find prime numbers in a list of integers.

### Data types are int, string , character, boolean, float complex in python

### )num=[10,20,30,40,50]num.reverse()print('the reverse number')

IC assignment 2:

1. Python program to print 1 st ten positive even integers using range function.
2. Python program to print 1 st ten positive odd integers using range function.
3. Python program to print 1 st ten multiples of 5 using range function.
4. Python program to print 1 st five negative integers using range function.
5. Python program to print 1 st five negative even integers using range function.
6. Python program to iterate through a list and tuple using for loop and for else.
7. Python program to check if a number is an Amstrong number or not.
8. Python program to display sum of numbers in a tuple using for else loop.
9. Define tuple,Strings,Characters,lists.
10. python program to print multiplication of odd numbers in a tuple.

for i in range(20, 40+1): if i > 1: for j in range(2, i): if i % j == 0: break else: print(i)

Take home assignment 1:

1)python program to print the sum of odd multiples of 7 till 50.

2)define while,for,if,if else,elif conditional stmts.

3) Write a pseudo code to print whether a number is divisible by 9 and a multiple of 6.

4) Write a program to convert the value of 'pi' to integer.

IC-3

1) Validate Email Address :

a. Check for '@' symbol, it should be only 1

b. Only lower case letters are allowed

c. Numbers are allowed

e. No symbols allowed other than '.' & '\_'

2) Append a dictionary into a tuple and access it.

3)Change the value of a key in the above case.

4)Create 2 tuples.Divide corresponding/adjacent elements based on index positions of the tuples.

5) Imagine an accounting routine used in a book shop. It works on a list with sublists, which look like this:

Order Number Book Name Quantity Price per item

32345 Learning Python 4 40.95

95621 Programming Python 5 56.80

71267 Head First Python 3 32.95

83145 Einführung in Python 3 24.99

Calculate the total bill paid by the customer.Add the cost of all the books.

This invoice of the customer.

6)Python program to print the square of even numbers in a range using list comprehension.

7)Python program to print cube of odd numbers and square of even numbers in a range using append function.

8)Perform positive slicing in a string.

9)Perform negative slicing in a string.

10) Perform positive slicing in a string and display characters with a common difference of +3.

11)Perform positive indexing in a tuple.

12)Perform negative indexing in a tuple.

13)Difference between tuple and list.

14)Perform negative slicing in a list.

15)Sort the numbers in a list in ascending order.

16)Find the minimum number in a list.

17)Create a dictionary where keys are capitals and values are states of India.

18)Add union territory Pondicherry where capital is Pondicherry and population is 1 crore.

(key which has a value which is a dictionary)

19)Define continue and break stmts.

20)Define list comprehension,map function,lambda and filter function in python.

21)Map cube of numbers in a list.

22)Python program to filter elements of data type integer and float in the list below using filter function.

[True,0,”o”,3.56,”4”,1,4+7j,False,”True”]

23)Uses of user defined function over looping conditions.

24)Snake ladder game

25)Rock paper scissors game

26)Login api

27)Python program to Register & Transfer Money using BHIM UPI?

Name of the bank is Hindustan.Name of the app in playstore is Hindustan pay.

Send money to an UPI id.

Total questions=52

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