Assignment -1

Question 1: What is the result of 15 // 2?

Ans : 7.

Question 2: Explain the difference between '==' and '!=' operators in Python

Ans : In python “==” Operator is equal operator and “!=” is not Equal operator.

Question 3: Create a variable called 'name' and assign it a string value of your name.

Ans: name = “Himank Patidar”.

Question 4: What is the output of the expression: len(name)?

Ans: 14.

Question 5: Explain the purpose of the 'in' operator in Python.

Ans : “in” Operator in python is a Membership Operator and it is used to check if the value is present or not . If value is present it gives “True” and if not it gives “False”.

Question 6: Create a list called 'fruits' containing the following fruits: 'apple', 'banana', 'orange'.

Ans : fruits = [‘apple’, ‘banana’, ‘orange’]

Question 7: What is the index of 'banana' in the 'fruits' list?

Ans : 1

Question 8: How would you add 'grape' to the end of the 'fruits' list?

Ans : fruits.append(‘grapes’)

Question 9: Create a set called 'unique\_numbers' with the numbers 1, 2, 3, 4, 5.

Ans: unique\_numbers = {1,2,3,4,5}

Question 10: Explain the difference between a list and a set in Python.

Ans : List = List are ordered collection and here you can access element using index or slicing . List are mutable you can modify after list is created. It can contain duplicate element.

Set = Set are unordered collection and here indexing and slicing do not supported. Set sometime may be mutable or immutable. In set you can use union, intersection to perform operation. Set do not allow duplicate element here only unique element are printed.

Question 11: Create a string variable called 'sentence' containing any sentence you like?

Ans: sentence = “Python is a very beginner friendly and easy programming language”

Question 12: How would you check if 'apple' is in the 'fruits' list?

Ans : “apple” in fruits

Question 13: How would you convert the string '5' to an integer?

Ans = s=”5”

print(type(int(s)))

Question 14: Explain the purpose of the 'not' operator in Python.

Ans : “not” is a logical operator in Python and it is used. ‘not ’ operator in python reverse the result , return false if result is true. Ex – not(x <5 and x < 10)

Question 15: Create a list called 'numbers' with the numbers 1 to 5.

Ans : numbers = [1,2,3,4,5]

Question 16: How would you remove the number 3 from the 'numbers' list?

Ans : numbers.remove(3)

Question 17: Create a set called 'letters' containing the letters 'a', 'b', 'c'.

Ans : letters = {‘a’, ’b’ , ‘c’}

Question 18: How would you add the letter 'd' to the 'letters' set?

Ans: letters.add(‘d’)

Question 19: Explain the purpose of the '%' operator in Python.

Ans : % is a modulus operator. It is used to find the reminder of the division between two numbers.

Question 20: How would you check if the length of 'fruits' list is greater than 3?

Ans : if (len(fruit)>3) :

print(“Length of fruit is greater than 3”)

else:

print(“Length of fruit is less than 3”)