ASSIGNMENT 2 PYTHON

1.What are the two values of the Boolean data type? How do you write them?

Ans. 1 The two values of Boolean Data type are True and False.

a = true

type (a)

b = false

type (b)

2.What are the three different types of Boolean operators?

Ans.2 The three types of Boolean operators in Python are AND,OR, NOT.

3. Make a list of each Boolean operator's truth table(i.e. every possible combination of Boolean values for the operator and what it evaluate).

4. What are the values of the following expressions?

(5 > 4) and (3 == 5)

not (5 > 4)

(5 > 4) or (3 == 5)

not ((5 > 4) or (3 == 5))

(True and True) and (True == False)

(not False) or (not True)

5. What are the six comparison operators?

Ans.5 The six comparison operators are:

==, <=, >=, <, >, !=

6. How do you tell the difference between the equal to and assignment operators?Describe a condition and when you would use one.

Ans.6 a) Assignment operators are use to assign a value to a variable.

b) Equal operators are use to show that the two values of any variables are equal.

7. Identify the three blocks in this code:

spam = 0

if spam == 10:

print('eggs')

if spam > 5:

print('bacon')

else:

print('ham')

print('spam')

print('spam')

Ans:7 # print('eggs') 1st block

# if spam > 5: 2nd block

# print('bacon') 3rd block

8. Write code that prints Hello if 1 is stored in spam, prints Howdy if 2 is stored in spam, and prints Greetings! if anything else is stored in spam.

Ans.8 Spam = input()

If spam ==”1”:

print(‘Hello’)

elif spam==”2”:

print(‘Howdy’)

else:

print(‘Greeting!’)

9.If your programme is stuck in an endless loop, what keys you’ll press?

Ans.9 If your programme is stuck in an endless loop, the keys you’ll press ctrl c.

10. How can you tell the difference between break and continue?

Ans. 10 Break statement is used to terminate the loop immediately, while continue statement is used to continue the loop.

11. In a for loop, what is the difference between range(10), range(0, 10), and range(0, 10, 1)?

12. Write a short program that prints the numbers 1 to 10 using a for loop. Then write an equivalent program that prints the numbers 1 to 10 using a while loop.

Ans: Using for loop

for i in range(1,11):

print(i)

Using while loop

print ('number from 1 to 10:')

n=1

while n<= 10:

print(n,end='')

n=n+1

13. If you had a function named bacon() inside a module named spam, how would you call it after importing spam?