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

Answer-True, False

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

Answer-and, or & not

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

Answer-

Operators=And

T and F=F T or F=T

T and T=T F or F =T

T and F=F T or T=F

F and F=F F or T=F

4. What are the values of the following expressions?

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

Answer=False

not (5 > 4)

Answer=False

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

Answer=True

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

Answer=False

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

Answer=False

(not False) or (not True)

Answer=True

5. What are the six comparison operators?

Answer=

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

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

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')

ANSWER=

spam = 0

if spam == 10:

print('eggs')

if spam > 5:

print('bacon')

else:

print('ham')

print('spam')

print('spam')

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.

ANSWER=

spam=0

no=int(input("Enter a number."))

if no == spam:

print("Hello")

elif no is spam:

print("Howdy")

else:

print("Greetings!")

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

ANSWER=Ctrl+C

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

ANSWER=Break statement which stops the loop when we write the statement.

Continue statement which ignores single iteration in a loop.

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

ANSWER=range(10) gives the values from 0,1….10.

range(0,10) and gives the values from 0,1,2….9.

range(0,10,1) which gives values from 0,1,2…9.1 denotes the steps of range.

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.

ANSWER=

Loop code:-

for i in range(1,11):

print(i)

While loop code:-

i=0

while i<10:

i+=1

print(i)

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

ANSWER=import spam