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

True

False

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

Ans: 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 ).

Ans: True and True =True

True and False = False

False and False =False

False and True =False

True or True =True

True or False =True

False or True = True

False or False =False

not True =False

not False = True

4. What are the values of the following expressions?

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

not (5 > 4): False

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

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

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

(not False) or (not True): True

5. What are the six comparison operators?

Ans: >, <, >=, <=,==,!=

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

Ans: equal to is used for comparing whether two values or expressions are equal or not but assignment operator is used for assigning values to variables.

Example: var=9. Here 9 is assigned to variable var. now result of ths expression var==9 is True as value of var is 9

7. Identify the three blocks in this code:

spam = 0

if spam == 10:

print('eggs')---here it should be a block of code

if spam > 5:

print('bacon')---it also should be block of code

else:

print('ham') ----

print('spam') -------this block under else condition is a block of code

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.

Ans: spam=int(input("Enter the number"))

if spam==1:

print("Hello")

elif spam==2:

print("Howdy")

else:

print("Greetings!")

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

Ans: Ctrl+C

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

Ans: Break statement stops the entire process of the loop. Continue statement only stops the current iteration of the loop

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

Ans: These three are same

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: Program using for loop

for i in range(1,11):

print(i)

Another prog using while loop:

i=1

while i<11:

print(i)

i+=1

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

Ans: spam.bacon