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

True and False

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

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 ).

|  |  |  |
| --- | --- | --- |
| And | And | Result |
| 1 | 0 | 0 |
| 0 | 1 | 0 |
| 0 | 0 | 0 |
| 1 | 1 | 1 |

|  |  |  |
| --- | --- | --- |
| Or | Or | Result |
| 1 | 0 | 1 |
| 0 | 1 | 1 |
| 0 | 0 | 0 |
| 1 | 1 | 1 |

|  |  |
| --- | --- |
| Not | Result |
| 1 | 0 |
| 0 | 1 |

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?

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

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

Equal to refers be as this ‘==’

While assigning anything requires ‘=’

To assign anything

A=6

While comparing

7==7

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')

ham

spam

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.

Spam=int(input(‘enter a number between 1,2 or anything else: ‘))

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?

Ctrl+C

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

Break will stop the code when the condition is True and won’t execute further while continue will run the code if the condition is true but won’t execute that point

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

They all 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.

For in range(11):

Print(i)

I=0

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?

Spam.bacon()