ASSIGNMENT - 2

- 1. What are the two values of the Boolean data type? How do you write them?
 - → The Two Values of Boolean Data Types Are
 - 1. True
 - 2. False
 - → We can write them using print statement and we can initialize a Boolean type of data to a variable and we can use that variable

- 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			
А	В	С	
TRUE	TRUE	TRUE	
TRUE	FALSE	FALSE	
FALSE	TRUE	FALSE	
FALSE	FALSE	FALSE	

OR		
Α	В	С
TRUE	TRUE	TRUE
TRUE	FALSE	TRUE
FALSE	TRUE	TRUE
FALSE	FALSE	FALSE

NOT		
А	В	
A = TRUE	A NOT = 0	
A = FALSE	A NOT = 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) \text{ or } (3 == 5))
        → True
(True and True) and (True == False)
        → False
(not False) or (not True)
        → True
5. What are the six comparison operators?
        \rightarrow The 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.
        → The Operator for Assignment Operation to is = .
        \rightarrow The Operator for equal to is == .
        → We will use Assignment Operator (=) when we are Initializing or assigning some data to a Variable . And
we equal to operator ( == ) when comparing the data with other data.
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')
        BLOCK-1:-
                 if spam == 10:
                        print('eggs')
```

```
BLOCK-2:-
    if spam > 5:
        print('bacon')

BLOCK-3:-
    else:
        print('ham')
        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.

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" is used to terminate the execution of a loop based on certain condition and "continue" is used to continue the looping in certain conditions.

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

```
range(10):-

It produces output from 0 to 9

range(0, 10):-
```

It also Produces output from 0 to 9. But here the starting value is mentioned, whereas we mention the starting value as to 5, the output that it produces will be 5 to 9.

```
range(0, 10, 1):-
```

It is same as Above but here the difference is we are mentioning the Difference between the output numbers. As it is mentioned as 1 here it will print the values from 0-9. Let's say we provide the difference as 2, the output will be as follows -0, 2, 4, 6, 8.

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.

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

```
spam.bacon()
```