Assignment - 2

Q1 what are the two values of the boolean data type? How do you write them?

→ Python boolean data type only two values
① True
② false

2) what are the three difference bet^n type of boolean operator

→ The tree basic boolean operators are AND, OR, NOT

3) make list of each boolean operator's truth table

→ AND

A	B	C
1	1	1
1	0	0
0	1	0
0	0	0
0	0	0

OR

A	B	C
1	1	1
1	0	1
0	1	1
0	0	0

NOT

A	A	B
True	0	1
	1	0

4) What are the following expression
   (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 six comparison operator
   → ① less than (<)
   ② greater than (>)
   ③ less than equal to (<=)
   ④ greater than equal to (>=)
   ⑤ Equal to (==)
   ⑥ Not equal to (!=)

6) Difference betⁿ equal to and assignment operator
   →

   Assignment operator -   equal to
   ① Assignment operator   ① equal to operator
   that helps to assign   returns True if the
   values to left-hand   values on either side
   side variable.   of operator are equal
                                            ex   3 == '3'

   ex - a=5
       a+=3
       print (a)
   o/p %

7) Write code that prints Hello if 1 is stored in spam, print Howdy if 2 is stored in spam and prints greetings! if anything else is stored in spam

→
```
spam = 1
if spam == 1:
    print ('Hello')
if spam > 1:
    print ('Howdy')
else:
    print ('Greetings')
```

8) If your programme is stuck in an endless loop, what keys you'll press?

→ you can stop an infinite loop with CTRL + C.

9) How can you tell the difference between break and continue?

→

Break	continue
① In break statement the control exits from the loop	① In continue statement the control remain within the loop
② It is used to stop the execution of the loop at spacific condition	② It is used to skip a particular iteration of loop

10) In for loop, what is the difference betn range (10), rang (0,10), and (range (0,10,1)?

→ range (10) gives one element list

① range (10) - This form of range () generates a sequence of number starting from 0
$$[0,1,2,3,4,5,6,7,8,9]$$

② range (0,10) : specify both the start and end values for range

A) $$[0,1,2,3,4,5,6,7,8,9]$$

③ range (0,10,1t) : This form of rang () includes a third argument, which is the step value.

11) In for loop, what is the difference

11) write a short program that prints numbers 1 to 10 using for loop. then write an equivalent program that prints the numbers 1 to 10 using while loop.

→

- Print 1 to 10 using for loop

```
for i in range (1,11):
    print i
```

o|p 1
    .
    .
    10

- print 1 to 10 using while loop

```
i=1
while (i<=10):
    print (i)
    i+ = 1
```

o|p 1
    .
    .
    10

12) If you had a function named bacon() inside a module named spam; how would you call it after importing spam

→ If you had a function named bacon() inside a module named spam, then This function can be called with spam.bacon().