ASSIGNMENT - 2

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

:- There are only two values of the Boolean data type that is 'True' and 'False'. They are built-in data type which represents one of two values i.e. True or False. Generally it is used to represents truth values of Expression .

Ex. (1==1) is True but (2<1) is False

The first of letter of Boolean data type must be Capital i.e. True and False

- 2. What are the three different types of Boolean operators?
- :- There are three types of Boolean operators.
 - (a) And (b) or (c) not
 - (a) And : It checks the Boolean values of the variable and gives True if both the values are True.

X = True

Y = False

Then x and y gives False

(b) Or :- It gives True if any one them are True or both of them are True.

X = True

Y = False

Then x and y gives True

- (c) Not :- it gives True if x = False
- 4. What are the values of the following expressions?

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

not (5 > 4)

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

not
$$((5 > 4) \text{ or } (3 == 5))$$

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

(not False) or (not True)

- :- (a) False
 - (b) False
 - (c) True
 - (d) False
 - (e) False
 - (f) True
- 5. What are the six comparison operators?

:-	(a) == (equal to)	If both the operands are equals	a==b
	(b) < (less than)	If one of the operands is less than other	2<3
	© > (greater than)	if one of the operands Is greater than other	5>4
	(d) != (not equal to) (e) <= (less than equals to	if operands are not equals b)	True != False x <= y
	(f) >= (greater than equals to)		x>=y

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 (==) operator basically used for comparing the values of the operands while Assignment operator is used to assign any value to variable.

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Ex.

A = 10

If (A == 20):
    print('Hello')

else:
    print('bye')
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In the first row variable a assigned by the int value 10 while in second row it is comparing By 20.

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.

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:-
Spam = int(input())
If (spam==1):
    Print('Hello')
elif (spam==2):
    print('Howdy')
```

else: print('Have a great day') 9.If your programme is stuck in an endless loop, what keys you'll press? :- If programme is stuck in endless loop then we should apply break statement or we can use ctrl + c. 10. How can you tell the difference between break and continue? : -(a) Break Statement – This statement is used to end smallest enclosing loop. (b) Continue Statement – This statement is used to skips the rest of the loop statement and starts the next iteration of the loop to take place. 11. In a for loop, what is the difference between range(10), range(0, 10), and range(0, 10, 1)? :- All the statement for range function are same. Each range function return the values from 0 to 9. There is not any difference between them. 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 i in range(1,11): Print(i) I = 1While I<=10: Print(I)

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

:- We can call is just by writing spam.bacon()