

PYTHON ASSIGNMENT 2

BY SAHIN AHMED

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

Ans: the two values can be either True and false. We write them as True and 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
TRUE OR TRUE	TRUE
TRUE OR FALSE	TRUE
FALSE OR FALSE	FALSE
NOT TRUE	FALSE
NOT FALSE	TRUE

True

4. What are the values of the following expressions?

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

ANS: False

not (5 > 4)

Ans:False

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

Ans: True

`not ((5 > 4) or (3 == 5))`

Ans: False

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

Ans: False

`(not False) or (not True)`

Ans: True

5. What are the six comparison operators?

Ans: EQUAL TO(==),LESS THAN(<),GREATER THAN(>), LESS THAN EQUAL TO(<=),GREATER THAN EQUAL TO(>=), NOT EQUAL TO(=)

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 operator is ==, but assignment operator is =

If we want to store a value in a variable than we use assignment operators.

If we want to check to values are equal or not we can use Equal to operator.

7. Identify the three blocks in this code:

First block:

```
spam = 0
```

```
if spam == 10:
```

```
    print('eggs')
```

Second block

```
if spam > 5:
```

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```
print('bacon')
```

Third block

else:

```
print('ham')
```

```
print('spam')
```

```
print('spam')
```

7. 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 a value))

If spam==1:

```
Print('Hello')
```

elif Howdy==2:

```
Print('Howdy')
```

else:

```
Print('Greetings!')
```

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

Ans: CTRL+C

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

Ans: In case of break the program comes out of the loop. But in continue returns back to the beginning to execute the loop again

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

Ans: All three will run the for loop 10 times.

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11. 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:

for i in range(1,11):

 Print(i)

Using while loop:

i=1

While (i<=10):

 Print(i)

 i=i+1

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

Ans: import spam as sp

 sp.bacon()