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Assignement 2

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

Ans: Two types are "true" and "false". In some language it resembles to values "1" and "0" sequentially mentioned

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

Ans: "And", "Or", "Not" are three Boolean operators.

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:

And=

True	True	1
True	False	0
False	False	0
False	True	0

or=

True	True	1
True	False	1
False	False	0
False	True	1

Not =

True<1>	0
False<0>	1

```
4. What are the values of the following expressions?
(5 > 4) and (3 = = 5) res: fasle / '0'
not (5 > 4) res: fasle/"0"
(5 > 4) or (3 = = 5) res: true/"1"
not ((5 > 4) \text{ or } (3 == 5)) \text{ res} : fasle/"0"
(True and True) and (True == False) res: fasle/"0"
(not False) or (not True) res: true/"1"
5. What are the six comparison operators?
Ans : 6 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.
Ans: '=' is the assignment operator and '==' is the equal to operator
let x = 1 means the value assigned in x is 1 but if x = = 1 then it is false
Let x = 10, y = 20, z = 20 then x is having value 10 but x = = y is false and y = = z is true.
7. Identify the three blocks in this code:
spam = 0
íf spam == 10:
print('eggs')
 f spam > 5
 orint ('bacon')
print('ham')
print('spam')
prínt ('spam')
yellow: 1st block, green: 2nd block, Sky: 3rd block
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.
Ans:
spam = int(input("enter ur number:"));
if spam == 1:
```

```
print("Hello")
elif spam == 2:
  print("Howdy")
else:
  print("greetings!")
9.1f your programme is stuck in an endless loop, what keys you'll press?
Ans: CTRL+C
10. How can you tell the difference between break and continue?
Ans:
For break ex:
name = ['q','b','f','g','k']
for í in range(o,len(name)):
  if i == 3:
     break
   else :
     print(name[i])
output = q b f
For Continue ex:
name = I'q','b','f','g','k'I
for i in range (o, len (name)):
  if i == 3:
     continue
   else:
     print(name[i])
output:qbfk
break: if cond is true it breaks the statement logic and returns to the start of the loop and ends execution there it self
continue: if cond is true then it skips the logical representation where the cond is true and continues excuting then after.
11. In a for loop, what is the difference between range (10), range (0, 10), and range (0, 10, 1)?
```

Ans: In for loop

```
1/Range(10) mean values [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
a = \square
for i in range (10):
  a.append(i)
2/ range(0,10) mean values [0, 1, 2, 3, 4, 5, 6, 7, 8,9]
a = \prod
for i in range (0,10):
  a.append(i)
3/ range(0,10,1) mean values [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
a = \square
for i in range (0,10,1):
  a.append(i)
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.
Ans:
using for loop:
for i in range (0,11):
  print(i)
using While loop:
g = 1
while g < 11:
    print(g)
    g = g + 1
```

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

Ans: bacon()