PYTHON BASIC

Assignment_2

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

Sol: >> True and False.

Using capital T and F, with the rest of the word in lowercase

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

Sol: AND, NOT, OR

3. Make a list of each Boolean operator & # 39;s truth tables

(i.e. every possible combination of Boolean values for the operator and what it evaluates).

Sol: Here, True (T=1), False (F=0)

INPUT(A)	INPUT(B)	AND (OUTPUT)	OR (OUTPUT)	NAND (OUTPUT)	NOR (OUTPUT)	XOR (OUTPU T)	NOT
Т	Т	Т	Т	F	F	F	Not True is False(0)
Т	F	F	Т	Т	F	Т	-
F	т	F	Т	Т	F	Т	-
F	F	F	F	Т	Т	F	Not False is True (1)

4. What do the following expressions evaluate to?











5. What are the six comparison operators?

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sol: ==, !=, <, >, <=, and >=.
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6. How do you tell the difference between the equal to and assignment operators? Describe a condition and when you would use one.

sol: == is the equal to operator that compares two values and evaluates to a Boolean,

= is the assignment operator that stores a value in a variable.

7.Identify the three blocks in this code:

spam = 0

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if spam == 10:
    print('eggs')

if spam > 5:
    print('bacon')

else:
    print('ham')
    print('spam')

print('spam')

sol: >> ham
    spam
    spam
    >>there are 3 block spam is assign with 0 !=10 so,condition is False
    >>now loop is in 4 line: 0>5 also False
    >>now in line 6, else execute and print
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Greetings!
if anything else is stored in spam.
Solution:
try:
spam=int(input())
if spam == 1:
print('Hello')
elif spam == 2:
print('Howdy')
else:
print('Greetings!')
except Exception:
print("try again with integer value")
finally:
print("!!")
9.If your program is stuck in an endless loop, what keys will you press? Sol: Press CTRL-C
10. How can you tell the difference between break and continue?
sol: Break: exits the loop
continue: skip the loop

8. Write code that prints Hello if 1 is stored in spam, prints Howdy if 2 is stored in spam, and prints

sol: gives the same output >>0 1 2 3 4 5 6 7 8 9						
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.						
Sol:						
print(f"for Loop")						
for i in range(0,11):						
print(i)						
print("\n while Loop")						
j=0						
while j<=10:						
print(j)						
j=j+1						
13. If you had a function named bacon() inside a module named spam, how would you call it after						
importing spam?						
sol:						
import spam						
spam.becon()						

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