

Assignment-2

1 ans) The two values of boolean data type are True and False.

2 ans) The three types of boolean operators are and, or, not.

and is represented by \wedge

or is represented by \vee

not is represented by \sim

3 ans)

Using and: if both the statements are true then it returns true value

P	Q	$P \wedge Q$
T	T	T
T	F	F
F	T	F
F	F	F

Using or:

P	Q	$P \vee Q$
T	T	T
T	F	T
F	T	T
F	F	F

Using not:

P	$\sim Q$
T	F
F	T

4 ans)

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

not $(5 > 4)$: False

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

not ((5 > 4) or (3 == 5)) : False

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

(not False) or (not True) : True

5 ans) Six comparison operators are

Less than (<)

Less than or equal to (<=)

Greater than (>)

Greater than or equal to (>=)

Equal to (==)

Not equal to (!=)

6 ans)

The “=” is an assignment operator is used to assign the value on the right to the variable on the left.

Ex: a=2

We are assigning value 2 to the variable a

The ‘==’ operator checks whether the two given operands are equal or not. If so, it returns true. Otherwise it returns false.

Ex: 7==2

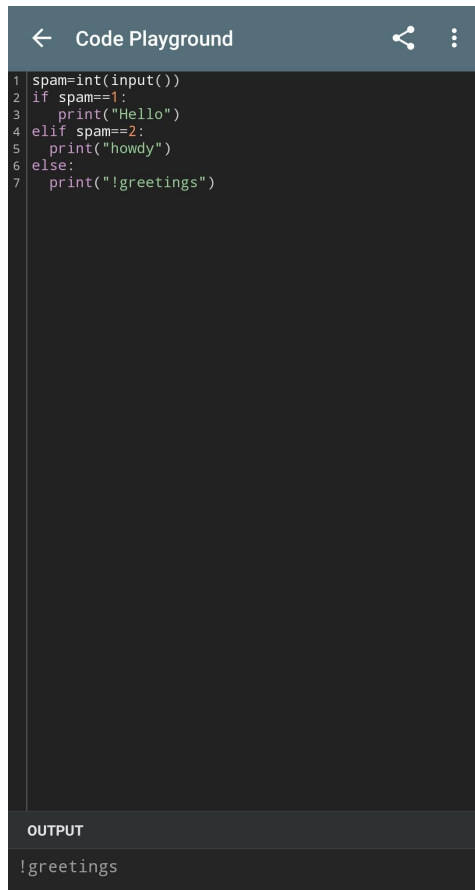
False

7 ans)

Three blocks are inside the if statement.

These are print('bacon') and print(ham')

8 ans)



The screenshot shows a web-based code editor titled "Code Playground". The editor contains a Python script with the following code:

```
1 spam=int(input())
2 if spam==1:
3     print("Hello")
4 elif spam==2:
5     print("howdy")
6 else:
7     print("!greetings")
```

Below the code editor, there is an "OUTPUT" section that displays the result of the script execution:

```
!greetings
```

9 ans)

To stop infinite loop we use CTRL+C

10 ans)

We use break to terminate the iteration. And continue is for to terminate the iteration once and then continue at particular area.

11 ans)

These are range functions that indicates (start, stop, jump)

range(10) generates list of values upto 10 excludes 10..that is upto 9

range(0, 10) generates a list of values upto 10 excludes 10..that is upto 9

0,10,1) generates a list of values upto 9 with difference 2..i.e., 0,3,5,7

range(0, 10), and range(0, 10, 1)

12 ans)

```
← Code Playground
```

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

OUTPUT

```
1
2
3
4
5
6
7
8
9
10
```

```
← Code Playground
```

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

OUTPUT

```
1
2
3
4
5
6
7
8
9
10
```

13 ans)

spam.bacon()