
Started on Monday, 26 February 2024, 10:09 AM

State Finished

Completed on Monday, 26 February 2024, 10:44 AM

Time taken 35 mins 17 secs

Grade **80.00** out of 100.00

Question 1

Correct

Mark 20.00 out of 20.00

Write a python program to print the result of the following expression as true or false.

a = (0 == True)

b = (False== False)

c = True + True

d = False + 9

For example:

Result
a is False
b is True
c: 2
d: 9

Answer: (penalty regime: 0 %)

```
1 a = (0 == True)
2 b = (False== False)
3 c = True + True
4 d = False + 9
5 print("a is",a)
6 print("b is",b)
7 print("c:",c)
8 print("d:",d)
```

	Expected	Got	
✓	a is False b is True c: 2 d: 9	a is False b is True c: 2 d: 9	✓

Passed all tests! ✓

Correct

Marks for this submission: 20.00/20.00.

Question **2**

Incorrect

Mark 0.00 out of 20.00

Write a python program to read and compare two characters and print the result as True or false.

'a' < 'b'

'a' > 'b'

For example:

Input	Result
a	True
b	False

Answer: (penalty regime: 0 %)

```
1 p=input()
2 q=input()
3 if(p<q):
4     print("True")
5 else:
6     print("False")
```

	Input	Expected	Got	
✖	a	True	True	✖
	b	False		
✖	d	False	False	✖
	a	True		

Your code must pass all tests to earn any marks. Try again.

Show differences

Incorrect

Marks for this submission: 0.00/20.00.

Question 3

Correct

Mark 20.00 out of 20.00

write a python program to implement expression using bitwise and , or, not, ex-or, right shift and left shift operator. Read the values from the user.

For example:

Input	Result
10	0
4	14
	-11
	14
	0
	160

Answer: (penalty regime: 0 %)

```

1 a=int(input())
2 b=int(input())
3 print(a&b)
4 print(a|b)
5 print(~a)
6 print(a^b)
7 print(a>>b)
8 print(a<<b)

```

	Input	Expected	Got	
✓	10	0	0	✓
	4	14	14	
		-11	-11	
		14	14	
		0	0	
		160	160	
✓	15	4	4	✓
	20	31	31	
		-16	-16	
		27	27	
		0	0	
		15728640	15728640	

Passed all tests! ✓

Correct

Marks for this submission: 20.00/20.00.

Question **4**

Correct

Mark 20.00 out of 20.00

write a python program to check whether the two integer numbers are equal using conditional Expression(Ternary)

For example:

Input	Result
25 24	False
12 12	True

Answer: (penalty regime: 0 %)

```
1 a=int(input())
2 b=int(input())
3 if(a==b):
4     print("True")
5 else:
6     print("False")
```

	Input	Expected	Got	
✓	25 24	False	False	✓
✓	12 12	True	True	✓

Passed all tests! ✓

Correct

Marks for this submission: 20.00/20.00.

Question 5

Correct

Mark 20.00 out of 20.00

Write a python program to determine traffic status based on the fraction of roadways covered.

The variable traffic_fraction

>0.5 high traffic

>0.25 and <=0.5 medium traffic

<0.25 Low Traffic

For example:

Input	Result
0.8	High Traffic!

Answer: (penalty regime: 0 %)

```
1 a=float(input())
2 if(a>0.5):
3     print("High Traffic!")
4 elif(a>0.25 and a<=0.5):
5     print("Medium Traffic")
6 else:
7     print("Low Traffic")
```

	Input	Expected	Got	
✓	0.8	High Traffic!	High Traffic!	✓
✓	0.3	Medium Traffic	Medium Traffic	✓
✓	0.1	Low Traffic	Low Traffic	✓

Passed all tests! ✓

Correct

Marks for this submission: 20.00/20.00.