

REC-PS

Question 1
Correct
Mark: 1.00 out of 1.00
Flag question

The program that you create for this exercise will begin by reading the cost of a meal ordered at a restaurant from the user. Then your program will compute the tax and tip for the meal. Use your local tax rate (5 percent) when computing the amount of tax owing. Compute the tip as 18 percent of the meal amount (without the tax). The output from your program should include the tax amount, the tip amount, and the grand total for the meal including both the tax and the tip. Format the output so that all of the values are displayed using two decimal places.

Sample input

100

Sample Output

The tax is 5.00 and the tip is 18.00, making the total 123.00

For example:

Input	Result
100	The tax is 5.00 and the tip is 18.00, making the total 123.00

Answer: (penalty regime: 0 %)

```
1 meal_amount = int(input())
2 tax = 0.05*meal_amount
3 tip = 0.18*meal_amount
4 total = meal_amount+tax+tip
5 print("The tax is {:.2f}".format(tax),"and the tip is {:.2f}".format(tip) ,"making the total {:.2f}".format(total))
6
```

Input	Expected	Got
✓ 100	The tax is 5.00 and the tip is 18.00, making the total 123.00	The tax is 5.00 and the tip is 18.00, making the total 123.00 ✓
✓ 250	The tax is 12.50 and the tip is 45.00, making the total 287.50	The tax is 12.50 and the tip is 45.00, making the total 287.50 ✓

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Week2_Coding: Attempt review

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For example:

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
✓	1945	True	True	✓
✓	1640	False	False	✓

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Question 3

Correct

Mark: 1.00 out of 1.00

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Mr. X's birthday is in next month. This time he is planning to invite N of his friends. He wants to distribute some chocolates to all of his friends after the party. He went to a shop to buy a packet of chocolates. At the chocolate shop, 4 packets are there with different numbers of chocolates. He wants to buy such a packet which contains a number of chocolates, which can be distributed equally among all of his friends. Help Mr. X to buy such a packet.

Input Given:

N-No of friends

P1,P2,P3 AND P4-No of chocolates

OUTPUT:

"True" if he can buy that packet and "False" if he can't buy that packet.

SAMPLE INPUT AND OUTPUT:

5

25

12

10

9

OUTPUT

True False True False

For example:

Input	Result
5	True False True True
25	
23	
29	
18	

Answer: (penalty regime: 0 %)

```
1 |> x= int(input())
2 |> p1 = int(input())
3 |> p2 = int(input())
4 |> p3 = int(input())
5 |> p4 = int(input())
6 |> if(p1%x==0):
7 |>     print("True",end=" ")
8 |> else:
9 |>     print("False",end=" ")
10 |> if(p2%x==0):
11 |>     print("True",end=" ")
12 |> else:
13 |>     print("False",end=" ")
14 |> if(p3%x==0):
15 |>     print("True",end=" ")
16 |> else:
17 |>     print("False",end=" ")
18 |> if(p4%x==0):
19 |>     print("True",end=" ")
20 |> else:
21 |>     print("False",end=" ")
22 |> 
```

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Answer: (penalty regime: 0 %)

```
1 x= int(input())
2 p1 = int(input())
3 p2 = int(input())
4 p3 = int(input())
5 p4 = int(input())
6 if(p3==0):
7     print("True",end=" ")
8 else:
9     print("False",end=" ")
10 if(p3==0):
11     print("True",end=" ")
12 else:
13     print("False",end=" ")
14 if(p3==0):
15     print("True",end=" ")
16 else:
17     print("False",end=" ")
18 if(p4==0):
19     print("True",end=" ")
20 else:
21     print("False",end=" ")
```

	Input	Expected	Got	
✓	5 25 23 20 10	true false true true	true false true true	✓
✓	4 33 24 21 12	false true false true	false true false true	✓
✓	8 64 8 16 32	true true true true	true true true true	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00

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Question 4

Correct

Mark: 1.00 out of 1.00

Flag question

Mr.Ram has been given a problem kindly help him to solve it. The input of the program is either 0 or 1. If 0 is the input he should display "C" if 1 is the input it should display "D".There is a constraint that Mr. Ram should use either logical operators or arithmetic operators to solve the problem, not anything else.

Hint:

Use ASCII values of C and D.

Input Format:

An integer x , $0 \leq x \leq 1$.

Output Format:

output a single character "C" or "D" depending on the value of x .

Input 1:
0
Output 1:
C

Input 2:
1
Output 2:
D

For example:

Input	Result
0	C

Answer: (penalty regime: 0 %)

```
1 x = int(input())
2 if(x==0):
3     print("C")
4 else:
5     print("D")
```

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Question 5

Correct

Marks: 1.00 out of 1.00

Flag question

Passed all tests!

Correct

Marks for this submission: 1.00/1.00

Pretend that you have just opened a new savings account that earns 4 percent interest per year. The interest that you earn is paid at the end of the year, and is added to the balance of the savings account. Write a program that begins by reading the amount of money deposited into the account from the user. Then your program should compute and display the amount in the savings account after 1, 2, and 3 years. Display each amount so that it is rounded to 2 decimal places.

Sample Input: 10000 Sample Output: Balance as of end of Year 1: \$10400.00. Balance as of end of Year 2: \$10816.00. Balance as of end of Year 3: \$11248.64.

For example:

Input	Result
10000	Balance as of end of Year 1: \$10400.00. Balance as of end of Year 2: \$10816.00. Balance as of end of Year 3: \$11248.64.

Answer: (penalty regime: 0 %)

```
1 x= int(input())
2 r = 0.04*x
3 i=0
4 while i<=3:
5     a= x+0.04*x
6     print("Balance as of end of Year 1: $({:.2f}).".format(a))
7     x=a
8     i=i+1
```

Input	Expected	Got
✓ 10000	Balance as of end of Year 1: \$10400.00. Balance as of end of Year 2: \$10816.00.	Balance as of end of Year 1: \$10400.00. Balance as of end of Year 2: \$10816.00. ✓

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Question 6
Correct
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An online retailer sells two products: widgets and gizmos. Each widget weighs 75 grams. Each gizmo weighs 112 grams. Write a program that reads the number of widgets and the number of gizmos from the user. Then your program should compute and display the total weight of the parts.

Sample Input:

```
10
20
```

Sample Output:

```
The total weight of all these widgets and gizmos is 2990 grams.
```

Answer: (penalty regime: 0 %)

```
1 x= int(input())
2 y= int(input())
3 a= 75*x
4 b= 112*y
5 z=a+b
6 print("The total weight of all these widgets and gizmos is",z,"grams.")
```

	Input	Expected	Got	
✓	10 20	The total weight of all these widgets and gizmos is 2990 grams.	The total weight of all these widgets and gizmos is 2990 grams.	✓

Passed all tests! ✓

Correct

Marks for this submission: 10.00/10.00

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IF Lokpal wins print true, otherwise false.

10

True

Since 10 is a

Input	Result
-------	--------

```
1 x= int(input())
2 if(x%2==0 and x!=0 and x<100):
3     print("True")
4 else:
5     print("False")
```

[illegible]

Question 8
Correct
Mark: 1.00 out of 1.00
Flag question

Write a python program that takes a integer between 0 and 15 as input and displays the number of '1' s in its binary form.(Hint:use python bitwise operator.

Sample Input:

3

Sample Output:

2

Explanations:

The binary representation of 3 is 011, hence there are 2 ones in it, so the output is 2.

For example:

Input	Result
3	2

Answer: (penalty regime: 0 %)

```
1 x = int(input())
2 y = bin(x)[2:]
3 z = y.count('1')
4 print(z)
```

	Input	Expected	Got	
✓	3	2	2	✓
✓	5	2	2	✓
✓	15	4	4	✓

Output Format:

Sample Input:

32

Sample Output:

Input	Result
-------	--------

--	--

```
1 x= int(input())
2 y= int(input())
3 if(x%3==0 and y%2==0):
4     print("True")
5 else:
6     print("False")
```

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Question 10

Correct

Mark: 1.00 out of 1.00

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Write a program that returns the last digit of the given number. Last digit is being referred to the least significant digit i.e. the digit in the ones (units) place in the given number.

The last digit should be returned as a positive number.

For example,

if the given number is 197, the last digit is 7

if the given number is -197, the last digit is 7

For example:

Input	Result
197	7
-197	7

Answer: (penalty regime: 0 %)

```
1 x = int(input())
2 y = abs(x)
3 z = y%10
4 print(z)
```

	Input	Expected	Got
✓	197	7	7 ✓
✓	-197	7	7 ✓

Passed all tests! ✓

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