Started on	Tuesday, 5 March 2024, 8:11 AM
State	Finished
Completed on	Tuesday, 5 March 2024, 9:26 AM
Time taken	1 hour 15 mins
Marks	5.00/5.00
Grade	**50.00** out of 50.00 (**100**%)
Name	DHANUSH M 2022-CSD-A

Question **1**

Correct

Mark 1.00 out of 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.

Answer: (penalty regime: 0 %)

```
a=int(input())
r=4
t=1
b=(a*(r)*(t)/100)
c=(a+b)
print("Balance as of end of Year 1: $%2.2f." %c)
d=((c)*(r)*(t)/100)
f=(c+d)
print("Balance as of end of Year 2: $%2.2f." %f)
g=((f)*(r)*(t)/100)
h=(f+g)
print("Balance as of end of Year 3: $%2.2f." %h)
```

	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 3: $11248.64.	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.	✔
✔	20000	Balance as of end of Year 1: $20800.00. Balance as of end of Year 2: $21632.00. Balance as of end of Year 3: $22497.28.	Balance as of end of Year 1: $20800.00. Balance as of end of Year 2: $21632.00. Balance as of end of Year 3: $22497.28.	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Correct

Mark 1.00 out of 1.00

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<=x<=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 1:
D
```

Answer: (penalty regime: 0 %)

```
x=int(input())
ascii_c=ord('C')
ascii_d=ord('D')
if(x == 0):
    print(chr(ascii_c))
elif(x == 1):
    print(chr(ascii_d))

```

	Input	Expected	Got	
✔	0	C	C	✔

	Input	Expected	Got	
✔	1	D	D	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

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

Explanation:

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

Answer: (penalty regime: 0 %)

```
n=int(input())
count=0
if(n>0 and n<=15):
    while n:
        n &=n-1
        count+=1
    print(count)
```

	Input	Expected	Got	
✔	3	2	2	✔
✔	5	2	2	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

In London, every year during Dasara there will be a very grand doll show. People try to invent new dolls of different varieties. The best-sold doll's creator will be awarded with a cash prize. So people broke their heads to create dolls innovatively. Knowing this competition, Mr.Lokpaul tried to create a doll that sings only when an even number is pressed and the number should not be zero and greater than 100.

IF Lokpaul wins print true, otherwise false.

Sample Input

10

Sample Output

True

Explanation:

Since 10 is an even number and a number between 0 and 100, True is printed

Answer: (penalty regime: 0 %)

```
n=int(input())
if(n>0 and n<100):
    if(n%2==0):
        print("True")
    else:
        print("False")
else:
    print("False")
```

	Input	Expected	Got	
✔	56	True	True	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **5**

Correct

Mark 1.00 out of 1.00

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

Answer: (penalty regime: 0 %)

```
a=int(input())
n1=int(input())
n2=int(input())
n3=int(input())
n4=int(input())
if(n1%a==0):
    print("True",end=" ")
else:
    print("False",end=" ")
if(n2%a==0):
    print("True",end=" ")
else:
    print("False",end=" ")
if(n3%a==0):
    print("True",end=" ")
else:
    print("False",end=" ")
if(n4%a==0):
    print("True",end=" ")
else:
    print("False",end=" ")
```

	Input	Expected	Got	
✔	5 25 23 20 10	True False True True	True False True True	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

◄ Week-2_MCQ

Jump to...

WEEK-02 Extra ►