

Sample Input

10

20

Sample Output

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

For example:

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

Ex. No.	:	2.1	Date:
Register No.	:		Name:

Widgets and Gizmos

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.

X=int(input())

Y=int(input())

A=x*75

B=y*112

Z=a+b

Print("The total weight of all these widgets and gizmos is %d grams. "%z)

Sample	Input					
10						
Sample	Output					
True						
Explana	tion:					
Since 10	is an even nu	mber and a nu	mber betwee	n 0 and 100,	True is printe	ed

Ex. No. :	2.2	Date:
Register No.:		Name:
		Doll Sings
invent new dolls cash prize. So prompetition, Mr.	of different var people broke tl Lokpaul tried t number should	Pasara there will be a very grand doll show. People try to rieties. The best-sold doll's creator will be awarded with a heir heads to create dolls innovatively. Knowing this to create a doll that sings only when an even number is not be zero and greater than 100. Therefore, the property of the proper
N=int(input())		
If(n%2==0 and n!	=0 and 0 <n<100< td=""><th>)):</th></n<100<>)):
Print("True")		
Else:		

Print("False")

Inp	out Given:
N-N	No of friends
P1,	P2,P3 AND P4-No of chocolates
OU	TPUT:
"Tı	rue" if he can buy that packet and "False" if he can't buy that packet.
SA	MPLE INPUT AND OUTPUT:
5	
25	
12	
10	
9	
	TPUT
OU	

Ex. No. :	2.3	Date:
Register No.:		Name:
	<u>Birthda</u>	ay Party
wants to distribute	e some chocolates to all of chocolates. At the choco	e he is planning to invite N of his friends. He his friends after the party. He went to a shop late shop, 4 packets are there with different such a packet which contains a number of
numbers of chocol	_	y among all of his friends. Help Mr. X to buy
numbers of chocol chocolates, which of	_	y among all of his friends. Help Mr. X to buy
numbers of chocol chocolates, which of	_	y among all of his friends. Help Mr. X to buy
numbers of chocol chocolates, which of	_	y among all of his friends. Help Mr. X to buy
numbers of chocol chocolates, which	_	y among all of his friends. Help Mr. X to buy
numbers of chocol chocolates, which o such a packet.	_	y among all of his friends. Help Mr. X to buy
numbers of chocol chocolates, which	_	y among all of his friends. Help Mr. X to buy
numbers of chocol chocolates, which o such a packet. N=int(input())	_	y among all of his friends. Help Mr. X to buy

```
D=int(input())
If(a\%n==0):
  Print("True" ,end=' ')
Else:
  Print("False" ,end=' ')
If(b%n==0):
  Print("True" ,end=' ')
Else:
  Print("False" ,end=' ')
If(c%n==0):
  Print("True" ,end=' ')
Else:
  Print("False" ,end=' ')
If(d%n==0):
  Print("True" ,end=' ')
Else:
  Print("False" ,end=' ')
```

Sample In	put			
3				
Sample O	itput:			
Explanati	an:			
	y representation of 3 is 0	111 hence there a	re 2 ones in it so the	outnut is 2
THE DIHAL	representation of 5 is 0	orr, mence mere a	re 2 ones in it. so the	output is 2.

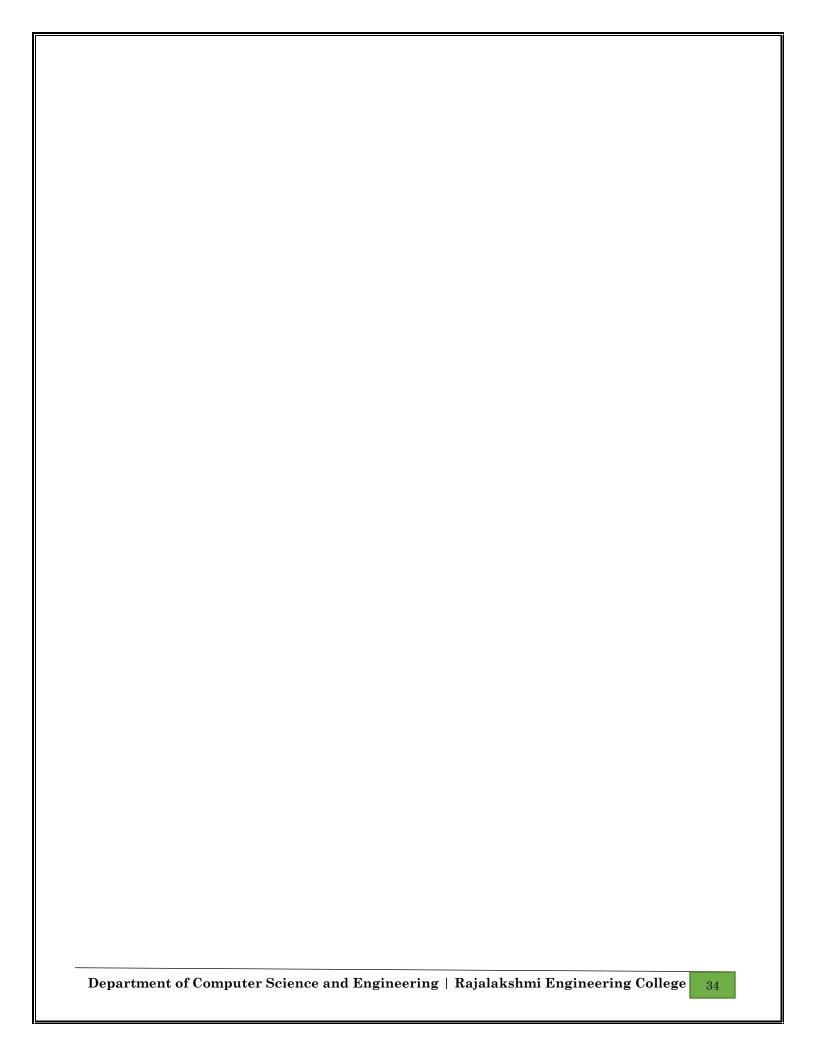
Ex. No. : 2.4 Date:

Register No.: Name:

Hamming Weight

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.

```
N=int(input())
If(n==0):
    Print("0")
Elif(n==3 or n==5 or n==6 or n==9 or n==10 or n==12):
    Print("2")
Elif(n==1 or n==2 or n==4 or n==8):
    Print("1")
Elif(n==11 or n==13 or n==14 ):
    Print("3")
Elif(n==15):
    Print("4")
Else:
    Print("NULL")
```



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

Ex. No.	:	2.5	Date:
Register No.	:		Name:

Compound Interest

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.

.

$$X=n+first$$

Print("Balance as of end of Year 1: \$%.2f." %x,"\nBalance as of end of Year 2: \$%.2f." %y," \nBalance as of end of Year 3: \$%.2f."%z)

Input Format:

Input consists of two integers that correspond to the age and weight of a person respectively.

Output Format:

Display True(IF ELIGIBLE)

Display False (if not eligible)

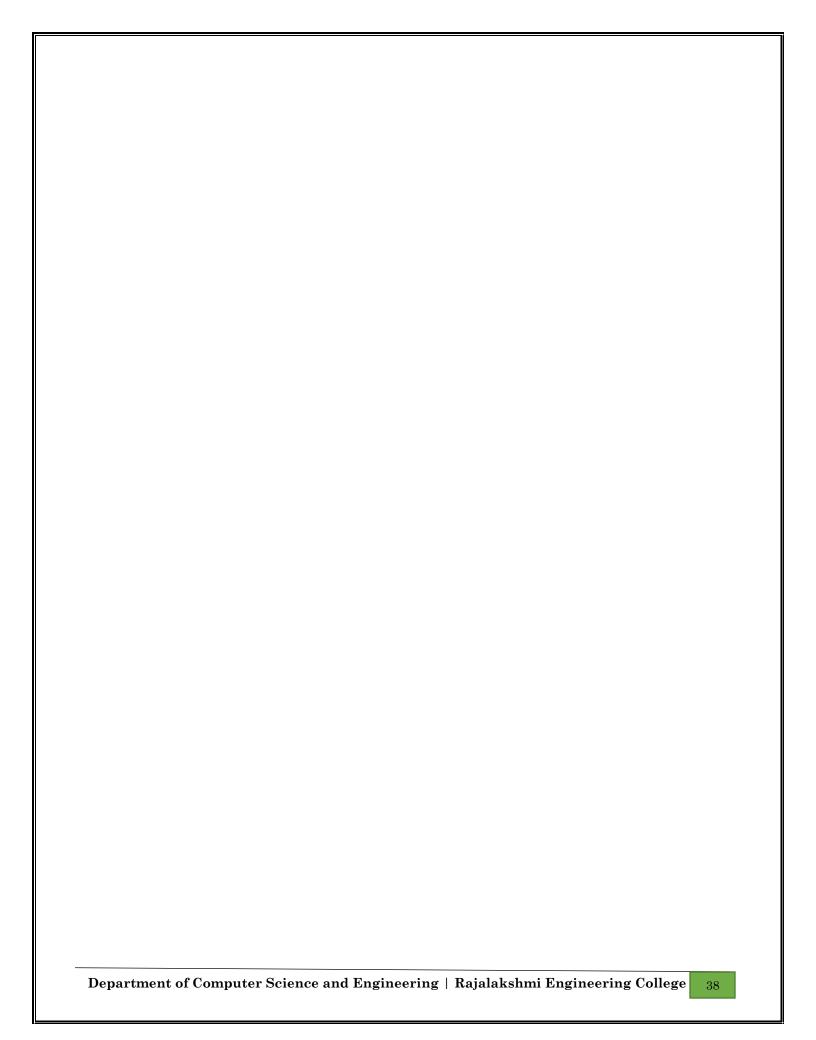
Sample Input

19

45

Sample Output

True



Ex. No.	:	2.6	Date:
Register No.	:		Name:

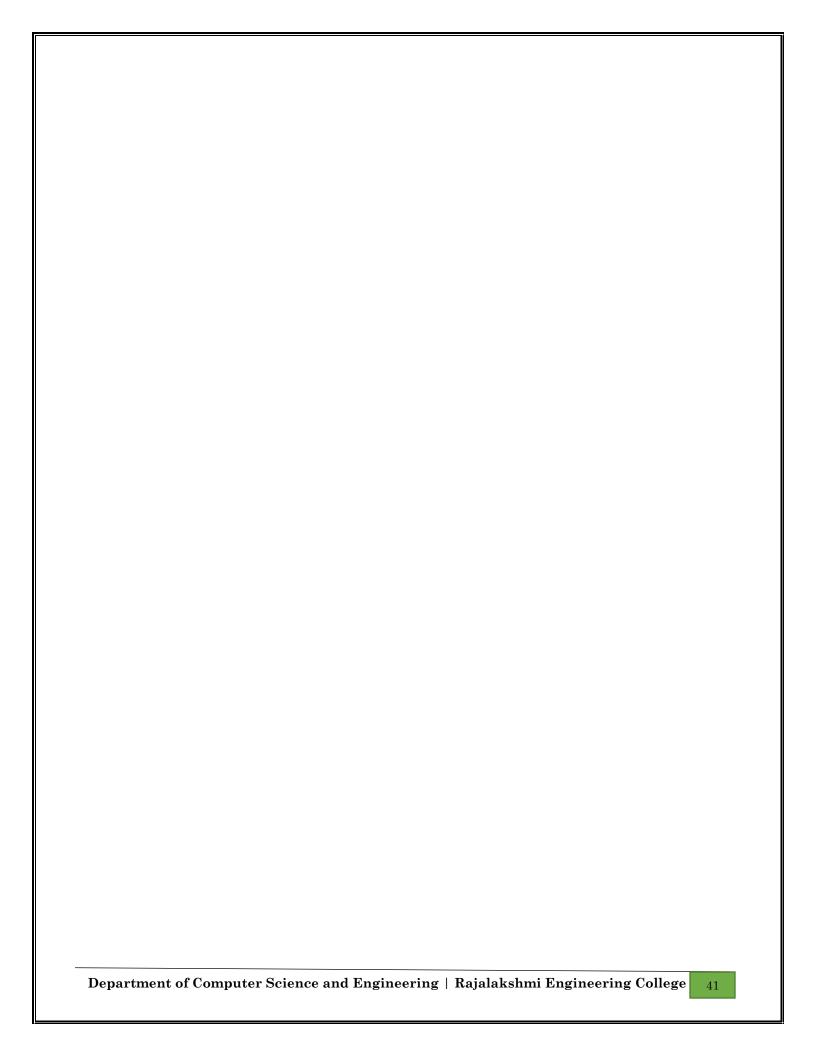
Eligible to donate blood

A team from the Rotract club had planned to conduct a rally to create awareness among the Coimbatore people to donate blood. They conducted the rally successfully. Many of the Coimbatore people realized it and came forward to donate their blood to nearby blood banks. The eligibility criteria for donating blood are people should be above or equal to 18 and his/ her weight should be above 40. There was a huge crowd and staff in the blood bank found it difficult to manage the crowd. So they decided to keep a system and ask the people to enter their age and weight in the system. If a person is eligible he/she will be allowed inside.

Write a program and feed it to the system to find whether a person is eligible or not.

```
N1=int(input())
N2=float(input())
If(n1>=18 and n2>40):
Print("True")
Else:
Print("False")
```

Input Format:
An integer x , $0 \le x \le 1$.
Output Format:
output a single character "C" or "D"depending on the value of x.
Input 1:
Output 1:
C
Input 2:
1
Output 1: D



Ex. No.	:	2.7	Date:
Register No	.:		Name:

$\underline{C \text{ or } D}$

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.

```
N=int(input())
```

If(n==0):

Print("C")

Else:

Print("D")

Inpu	t format:
_	1 has the total number of weapons
Line	2 has the total number of Soldiers.
Outp	out Format:
If the	e battle can be won print True otherwise print False
Samp	ple Input:
32	
43	
Samp	ole Output:'
False	,

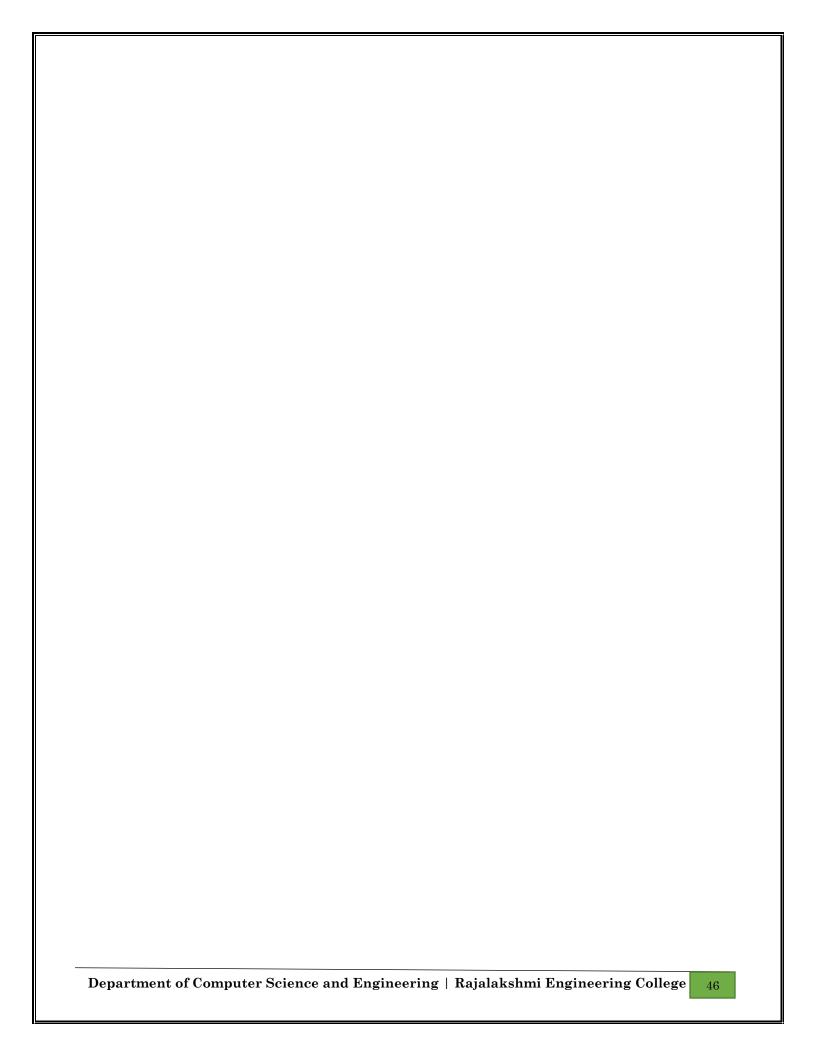
Ex. No.	:	2.8	Date:	
Register N	No.:		Name:	

Troy Battle

In the 1800s, the battle of Troy was led by Hercules. He was a superstitious person. He believed that his crew can win the battle only if the total count of the weapons in hand is in multiple of 3 and the soldiers are in an even number of count. Given the total number of weapons and the soldier's count, Find whether the battle can be won or not according to Hercules's belief. If the battle can be won print True otherwise print False.

```
Weapons=int(input())
Soldiers=int(input())
If(weapons%3==0 and soldiers%2==0):
    Print("True")
Else:
    Print("False")
```

Sample Input 100 Sample Outpu The tax is 5.00	it) and the tip is	18.00, makinş	g the total 12	3.00	



Ex. No.	:	2.9	Date:
Register No.	. :		Name:

Tax and Tip

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.

N=int(input())

X=n*0.05

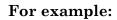
Y=n*0.18

Z=n+x+y

Print("The tax is %.2f" %x,end=")

Print(" and the tip is %.2f"%y,end=")

Print(", making the total %.2f"%z,end=")



Input	Result
123	3

Ex. No. :	2.10	Date:
Register No.:		Name:
<u>Re</u>	eturn last digit of	the given number
	_	of the given number. Last digit is being digit in the ones (units) place in the given
The last digit show	uld be returned as a positive	e number.
For example,		
if the given number	er is 197, the last digit is 7	
if the given number	er is -197, the last digit is 7	

N=int(input())
If(n>0):
A=n%10
Print(abs(a))
Else:
A=n%10

A+=4			
Print(a)			
11110(α)			

