01 - Intr	coduction	to Pytho	n-Variabl	es-Dataty	pes
	Input/	Output-F	ormattir	ng	

Sample Output:

 $10,\!\!<\!\!\mathrm{class\;'int'}\!\!>$

 $10.9,\!\!<\!\!\mathrm{class'float'}\!\!>$

Input	Result
10	10, <class 'int'=""></class>
10.9	10.9, <class 'float'=""></class>

Ex. No. : 1.1	Date:
Register No.:	Name:
C	udin a Innant Chairman
Conver	rting Input Strings
Write a program to convert string	gs to an integer and float and display its type.
Sample Input:	
10	
10.9	

num1 = int(input())

num2=float(input())

print(num1, type(num1), sep=', ')

print("%.1f"%(num2), type(num2), sep=',')

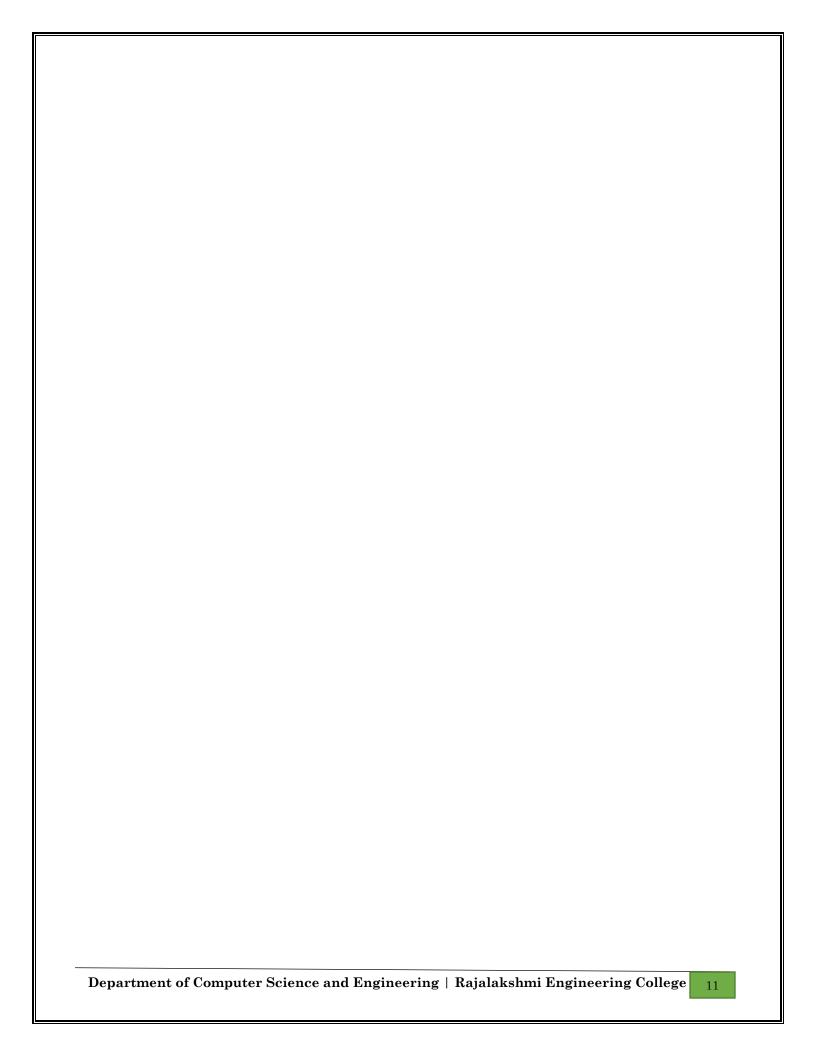
 $Sample\ Input:$

10000

 $Sample\ Output:$

16000

Input	Result
10000	16000



Ex. No.	:	1.2	Date:
Register No	.:		Name:

Gross Salary

Ramesh's basic salary is input through the keyboard. His dearness allowance is 40% of his basic salary, and his house rent allowance is 20% of his basic salary. Write a program to calculate his gross salary.

```
salary=int(input())
other=(40/100+20/100)*salary
gross=salary+other
print("%d"%(gross))
```

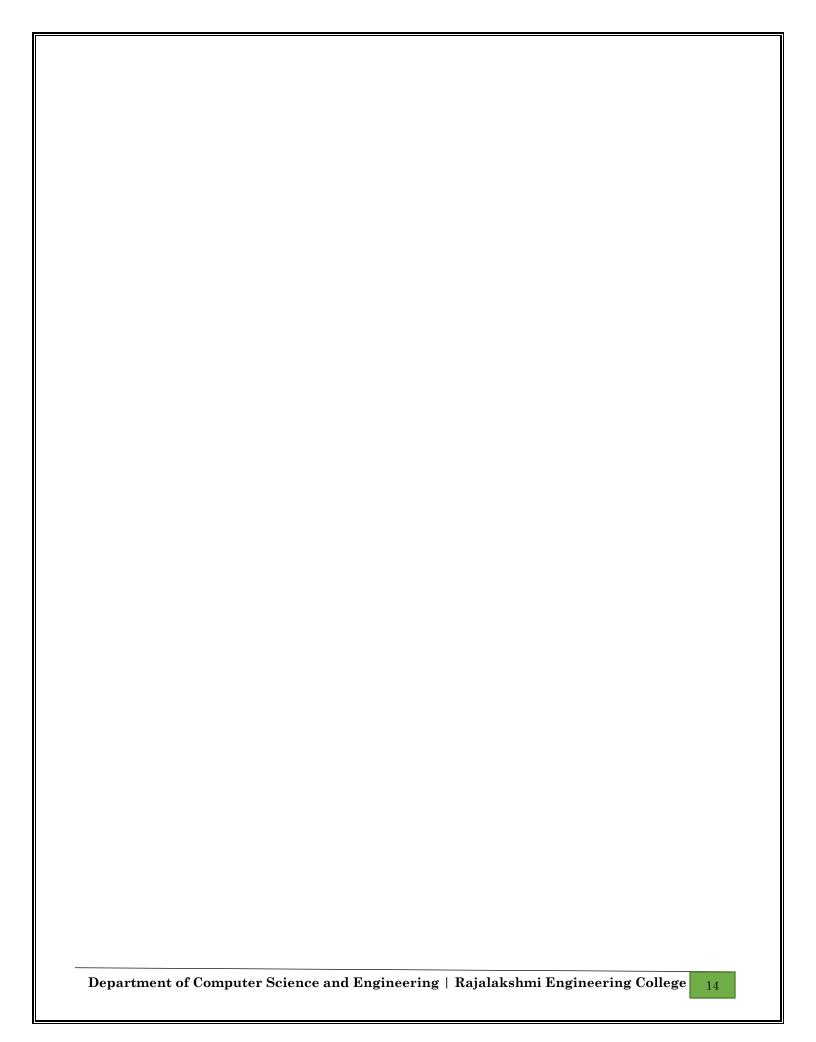
Sample Input:

8.00

Sample Output:

2.828

Input	Result
14.00	3.742



Ex. No.	:	1.3	Date:
Register No	.:		Name:

Square Root

Write a simple python program to find the square root of a given floating point number. The output should be displayed with 3 decimal places.

num=float(input())
root=num**.5
print("%.3f"%(root))

Input Format:

The first line contains the Rs X

The second line contains Rs Y

The third line contains Rs Z

Sample Input:

10000

250

15000

Sample Output:

46.34 is the gain percent.

Input	Result
45500 500 60000	30.43 is the gain percent.

Ex. No.	:	1.4	Date:
Register No	.:		Name:

Gain percent

Alfred buys an old scooter for Rs. X and spends Rs. Y on its repairs. If he sells the scooter for Rs. Z (Z>X+Y). Write a program to help Alfred to find his gain percent. Get all the above-mentioned values through the keyboard and find the gain percent.

```
x=int(input())
y=int(input())
z=int(input())
total=x+y
gain=z-total
per=gain/total*100
print("%.2f is the gain percent."%(per))
```

Sample Input

10

20

Sample Output

Your total refund will be \$6.00.

Input	Result
20 20	Your total refund will be \$7.00.

Ex. No.	:	1.5	Date:
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Register No.: Name:

Deposits

In many jurisdictions, a small deposit is added to drink containers to encourage people to recycle them. In one particular jurisdiction, drink containers holding one liter or less have a \$0.10 deposit and drink containers holding more than one liter have a \$0.25 deposit. Write a program that reads the number of containers of each size(less and more) from the user. Your program should continue by computing and displaying the refund that will be received for returning those containers. Format the output so that it includes a dollar sign and always displays exactly two decimal places.

```
con1=int(input())
con2=int(input())
z=(con1*0.10)+(con2*0.25)
print("Your total refund will be $%.2f."%(z))
```

Sample Inp

450

Sample Output:

weekdays 10.38

weekend 0.38

Input	Result
450	weekdays 10.38 weekend 0.38

Ex. No.	:	1.6	Date:	
	No.:		Name:	

Carpenter

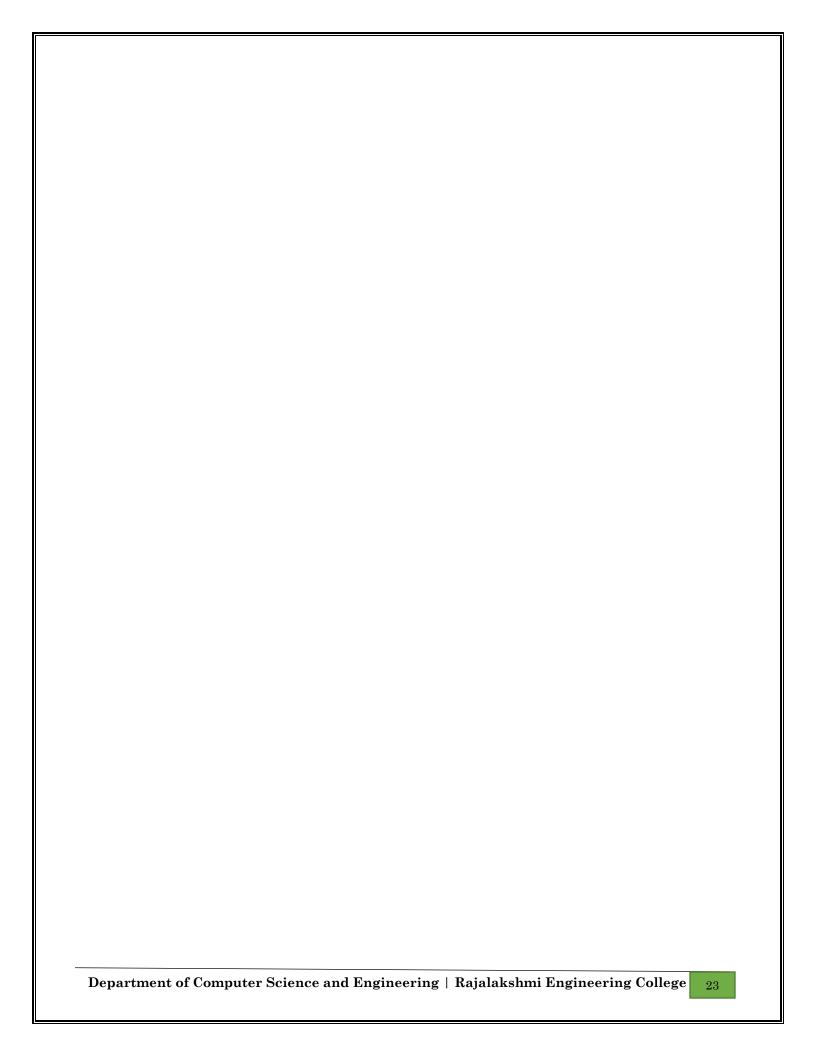
Justin is a carpenter who works on an hourly basis. He works in a company where he is paid Rs 50 for an hour on weekdays and Rs 80 for an hour on weekends. He works 10 hrs more on weekdays than weekends. If the salary paid for him is given, write a program to find the number of hours he has worked on weekdays and weekends.

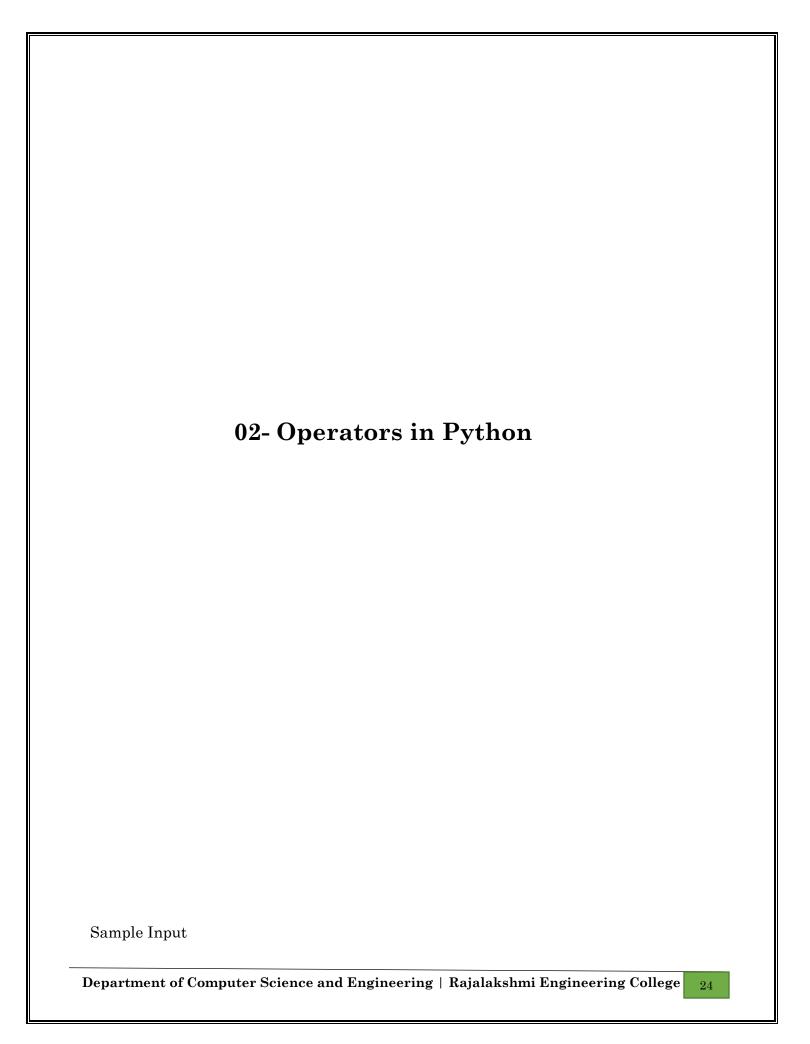
Hint:

If the final result(hrs) are in -ve convert that to +ve using abs() function The abs() function returns the absolute value of the given number.

```
number = -20
absolute_number = abs(number)
print(absolute_number)
# Output:
```

sal=int(input())
weekday=50
weekend=80
x=abs(sal-500)/(80+50)
b=x+10
d=abs(x)
print("weekdays %.2f"%b)
print("weekend %.2f"%d)





10

20

Sample Output

The total weight of all these widgets and gizmos is $2990~\mathrm{grams}$.

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.

widget=int(input())
gizmos=int(input())
totwid=widget*75+gizmos*112
print("The total weight of all these widgets and gizmos is %d grams "%(totwid))