RAJALAKSHMI ENGINEERING COLLEGE

RAJALAKSHMI NAGAR, THANDALAM – 602 105

RAJALAKSHMI
ENGINEERING COLLEGE

CS23221
PYTHON PROGRAMMING LAB

Laboratory Observation Notebook

Name : SURYA E

Year / Branch / Section : 1st/CSE/F

Register No. : 230701353

Semester : 2nd

Academic Year : 2023-24

01 - Introduction to Python-Variables-Datatypes Input/Output-Formatting

Sample Output:

10,<class 'int'>

10.9,<class 'float'>

For example:

Input	Result
10 10.9	10,<class 'int'> 10.9,<class 'float'>

Ex. No. : 1.1 **Date:**

Register No.: 230701353 **Name: SURYA E**

Converting Input Strings

Write a program to convert strings to an integer and float and display its type.

Sample Input:

10

10.9

Program:

```
a=int(input())
b=float(input())
s=type(a)
p=type(b)
b=round(b,1)
print(a,s,sep=',')
print(b,p,sep=',')
```

Sample Input:

10000

Sample Output:

16000

For example:

Input	Result
10000	16000

Ex. No. : 1.2 **Date:**

Register No.: 230701353 **Name: SURYA E**

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.

Program:

```
a=int(input())

s=(20/100)*a

p=(40/100)*a

c=int(s+p)+a

print(c)
```

Sample Input:

8.00

Sample Output:

2.828

For example:

Input	Result
14.00	3.742

Ex. No. : 1.3 **Date:**

Register No.: 230701353 **Name: SURYA E**

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.

Program:

```
k=float(input())

m=(k**.5)

print("%.3f"%m)
```

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.

For example:

Input	Result
45500 500 60000	30.43 is the gain percent.

Ex. No. : 1.4 **Date:**

Register No.: 230701353 **Name: SURYA E**

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.

Program:

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