Department of Computer Science
PYTHON PROGRAMMING LAB RECORD

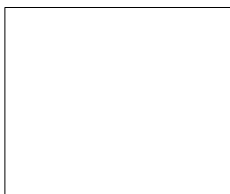| Program No: 1.1	Date: 10-07-2025
Name: SIVALAKSHMI PS	Reg No: 24117038

Program Title : Display current age.

Program : Write a program to accept your name and year of birth and display your current age.

```
nam=input("Enter your name:- ")
year=int(input("Enter you year of birth:- "))
age=2025-year
print("HELLO ",nam,",YOUR AGE IS ",age)
```

Output Screenshot/Text

```
PS C:\Users\sival\AppData\Local\Programs\Microsoft VS Code Insiders> & C:\
Enter your name:- SIVALAKSHMI PS
Enter you year of birth:- 2007
HELLO  SIVALAKSHMI PS ,YOUR AGE IS  18
PS C:\Users\sival\AppData\Local\Programs\Microsoft VS Code Insiders>
```

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Program No: 1.2	Date: 10-07-2025
Name: SIVALAKSHMI PS	Reg No: 24117038

Program Title : Area & perimeter of rectangle.

Program : Write a program to calculate the area and perimeter of a rectangle given length and breadth.

```python
l=int(input("Enter the length of the Rectangle: "))
b=int(input("Enter the breadth of the Rectangle:"))
area=l*b
print("AREA OF THE RECTANGLE=",area)
perimeter=2*l+b
print("PERIMETER OF THE RECTANGLE=",perimeter)
```

Output Screenshot/Text

```
PS C:\Users\sival\AppData\Local\Programs\Microsoft VS Code Insiders> & C:
Enter the length of the Rectangle: 2
Enter the breadth of the Rectangle:3
AREA OF THE RECTANGLE= 6
PERIMETER OF THE RECTANGLE= 7
PS C:\Users\sival\AppData\Local\Programs\Microsoft VS Code Insiders>
```

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Program No: 1.3	Date: 10-07-2025
Name: SIVALAKSHMI PS	Reg No: 24117038

Program Title : Temperature conversation (C to F& k).

Program : Write a program that converts temperature in Celsius to Fahrenheit and Kelvin.

```python
cel=float(input("Enter the Temperature: "))
fahr=(cel*9/5)+32
kel=cel+273.15
print("CELCIUS TO FAHRENHEIT = ",fahr,"CELCIUS TO KELVIN = ",kel)
```

Output Screenshot/Text

```
PS C:\Users\sival\AppData\Local\Programs\Microsoft VS Code Insiders> & C:\Users\si
Enter the Temperature: 23
CELCIUS TO FAHRENHEIT =  73.4 CELCIUS TO KELVIN =  296.15
PS C:\Users\sival\AppData\Local\Programs\Microsoft VS Code Insiders>
```

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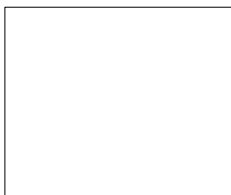| Program No: 1.4	Date: 10-07-2025
Name: SIVALAKSHMI PS	Reg No: 24117038

Program Title : Roots of a quadratic equation.

Program : Write a program to find roots of a quadratic equation (handle complex roots too).

```
import math
a=float(input("ENTER VALUE FOR a: "))
b=float(input("ENTER THE VALUE FOR b: "))
c=float(input("ENTER THE VALUE FOR c: "))
qua=b**-4*a*c
root1=-b+(math.sqrt(qua))/2*a
root2=-b-(math.sqrt(qua))/2*a
print("QUADRATIC EQUATION 1 =",root1)
print("QUADRATIC EQUATION 2 =",root2)
```
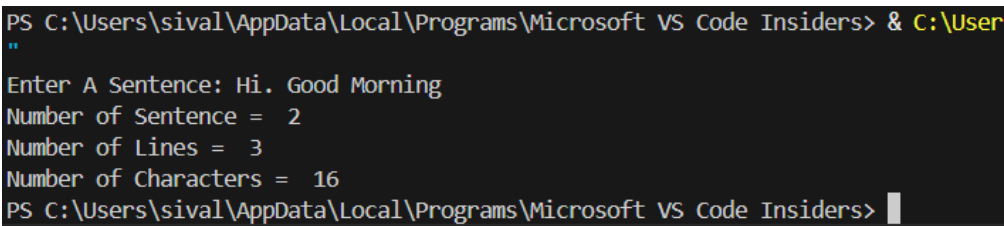
Output Screenshot/Text

```
PS C:\Users\sival\AppData\Local\Programs\Microsoft VS Code Insiders> & C:\Use
ENTER VALUE FOR a: 1
ENTER THE VALUE FOR b: 2
ENTER THE VALUE FOR c: 3
QUADRATIC EQUATION 1 = -1.7834936490538904
QUADRATIC EQUATION 2 = -2.21650635094611
PS C:\Users\sival\AppData\Local\Programs\Microsoft VS Code Insiders>
```

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Program No: 1.5	Date: 10-07-2025
Name: SIVALAKSHMI PS	Reg No: 24117038
Program Title : Count words, lines, and characters.	

Program : Write a program to count words, lines, and characters in a user-provided sentence.

```python
word=input("Enter A Sentence: ")
numofsent=len(word.split("."))
print("Number of Sentence = ",numofsent)
countword=word.split(" ")
print("Number of Lines = ",len(countword))
print("Number of Characters = ",len(word))
```
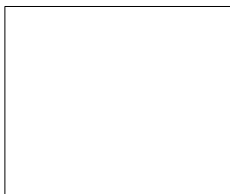
Output Screenshot/Text

```
PS C:\Users\sival\AppData\Local\Programs\Microsoft VS Code Insiders> & C:\User
"
Enter A Sentence: Hi. Good Morning
Number of Sentence =  2
Number of Lines =  3
Number of Characters =  16
PS C:\Users\sival\AppData\Local\Programs\Microsoft VS Code Insiders>
```

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Program No: 1.6	Date: 10-07-2025
Name: SIVALAKSHMI PS	Reg No: 24117038

Program Title : Find largest and smallest of 3 numbers

Program : Write a program that uses built-in functions to find the largest and smallest among three numbers.

```python
a = int(input("Enter the first number: "))
b = int(input("Enter the second number: "))
c = int(input("Enter the third number: "))
largest = max(a, b, c)
smallest = min(a, b, c)
print("Largest number is:", largest)
print("Smallest number is:", smallest)
```

Output Screenshot/Text

```
PS C:\Users\sival\AppData\Local\Programs\Microsoft VS Code Insiders> & C:\Users\sival\Ap
Enter the first number: 6
Enter the second number: 5
Enter the third number: 4
Largest number is: 6
Smallest number is: 4
PS C:\Users\sival\AppData\Local\Programs\Microsoft VS Code Insiders>
```

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