

Task-1.1

Date :- 6/8/25

AIM :- To write a Python program that calculates the total amount spent by Karan on books, groceries, and transport.

ALGORITHM :-

1. Start the program.
2. Accept the amount spent on books, groceries, and transport.
3. Calculate the total expenses by summing all three amounts.
4. Display the total amount spent.
5. End the program.

VELTECH - GSE	
EX.NO.	
PERFORMANCE (5)	
RESULT AND ANALYSIS (3)	
VIVA VOCE (3)	
RECORD (3)	
TOTAL (15)	
SIGN WITH DATE	

RESULT :- Python program that calculates total amount spent by Karan on items has been executed.

### Python Program :-

```
# Program to calculate total expenses of Karan  
# Step 1: Assign expenses  
books = 150  
groceries = 220  
transport = 90  
# Step 2: Calculate total  
total_expense = books + groceries + transport  
# Step 3: Display the result  
print ("Total expenses incurred by Karan : ₹", total_expense)
```

### SAMPLE INPUT :-

Books = ₹ 150  
Groceries = ₹ 220  
Transport = ₹ 90

### SAMPLE OUTPUT :-

Total expenses incurred by Karan: ₹ 460

Task 1-2

Dated 6/8/20

AIM :- To write a Python program that calculates and displays the Body Mass Index (BMI) of a person using their weight (in kilograms) and height (in meters).

ALGORITHM :-

1. Start the program.
2. Prompt the user to input their weight in Kilograms.
3. Prompt the user to input their height in meters.
4. Calculate BMI using the formula.  
$$\text{BMI} = \frac{\text{Weight}}{\text{Height}^2}$$
5. Display the calculated BMI.
6. End the program.

VEL TECH - CSE	
EX NO.	
PERFORMANCE (5)	
RESULT AND ANALYSIS (3)	
VIVA VOCE (3)	
RECORD (4)	
TOTAL (15)	
SIGN WITH DATE	

RESULT :- Python program that calculated and displays the BMI has been executed.

## Python Programming

### # BMI Calculator

# Step 1: Get input from the user

```
weight = float (input ("Enter your weight in kilograms:"))
height = float (input ("Enter your height in meters:"))
```

# Step 2: Calculate BMI

```
bmi = weight / (height ** 2)
```

# Step 3: Display result

```
Print ("Your Body mass Index (BMI) is : ", round (bmi, 2))
```

### Sample Input :-

- Enter your weight in kilograms : 70
- Enter your height in meters : 1.75

### Sample Output :-

Your Body mass

Index (BMI) is : 22.86

### Program :-

```
import math
```

```
a = 8
```

```
b = 6
```

```
c = 4
```

$$s = \frac{(a+b+c)}{2}$$

$$\text{area} = \text{math.sqrt}(s * (s-a) * (s-b) * (s-c))$$

```
print ("area")
```

### Input :-

```
Side a = 8
```

```
Side b = 6
```

```
Side c = 4
```

### Output :-

DATA	PROGRAMMING
AVIARY	RECORD
LOTUS	WORMS DATA

Area of triangle : 11.62

Task :- 1.3  
Date :- 6/8/25

AIM :- To write python program to find the area of a triangle when the length of all three sides are given, using Heron's formula.

ALGORITHM :-

1. Start the program
2. Accept or assign the length of the three sides:  
 $a, b$  and  $c$
3. Calculate the Semi-perimeter  
$$S = \frac{a+b+c}{2}$$
4. Use heron's formula to calculate the area  
$$\text{Area} = \sqrt{S(S-a)(S-b)(S-c)}$$
5. Display area
6. End program

SL TECH - CSE	
NO.	
PERFORMANCE (5)	5
RESULT AND ANALYSIS (3)	3
VIVA VOCE (3)	3
RECORD (4)	4
TOTAL (15)	15
WITH DATE	01/08/25

RESULT :- Python program to find area of triangle using heron's formula has been executed.