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:

(values are already assigned in the program - no manual input requi

Books = ₹150

Groceries = ₹220

Transport = ₹90

Sample Output

Total expenses incurred by Karan : ₹460

Task No :- 01

Date :- 5/08/25

Running Python script and various expressions in an interactive interpreter Key terms Covered: Introduction to Python, commands, script.

1.1 Karan spent ₹150 on books, ₹220 on groceries, and ₹90 on transport. Help him calculate the total expenses.

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

Algorithm :-

Start the program

Accept the amount spent on books, groceries & transport

Calculate the total expenses by summing all three amounts.

Display the total amount spent.

End the program.

Result :- Thus, the amount spent by Karan on books, groceries and transport are proved.

Python Program:

```
# 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: "))

# Step2: 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: 1.75
```

Task: 1.2

Date: 6/08/25

Write a BMI calculator. Ask the user for weight (kg) and height (m), then calculate and display their BMI.

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:

$$BMI = \frac{weight}{height^2}$$

5. Display the calculated BMI.
6. End the program.

Result:- Thus, the body mass index of a person using their weight (kg) and height (m) are proved.

Python Program:-

```
import match
# Step 1: Assign side lengths.
    a = 8
    b = 6
    c = 4
# Step 2: Calculate semi-perimeter
 s = (a+b+c) / 2
# step 3: Apply Heron's formula
 area = match.sqrt (s*(s-a)*(s-b)*(s-c))
# Step 4: Display result
 print "The area of the triangle is:", round (area, 2), "square cm"
```

Sample input

(Values are already assigned)

Sides a = 8 cm

Sides b = 6 cm

Sides c = 4 cm

Sample Output

The area of the triangle is : 11.62 square cm

Task: 1.3
Date 6/08/25

Laya wants to calculate the area of a scalene triangle with sides of length 8cm, 6cm and 4cm. Help her write a Python program that computes the area using Heron's formula

Aim: To write a Python program to find the area of a triangle when the lengths of all three sides are given, using Heron's formula.

Algorithm:

1. Start the program
2. Accept or assign the lengths of the three sides: a, b & 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 the area of the triangle.
6. End the program.

VEL TECH - CSE	
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PERFORMANCE (5)	5
RESULT AND ANALYSIS (3)	3
VIVA VOCE (3)	3
RECORD (4)	4
TOTAL (15)	15
SIGN WITH DATE	6/8/25

Result: Thus, the area of triangle when the lengths of all three sides are proved by heron's formulla.