

Date: 06/08/25

TASK-1

Running Python script and variable expression in
on interaction key term key term weed innovation
to Python command script.

- 1.1 Kean spent ₹1500 books ₹200 on groceries
and ₹90 on transport. Help him calculate that
total expense.

Aim: To write a Python program that calculate
the total amount spent by Kean on book groceries
and transport.

Algorithm:

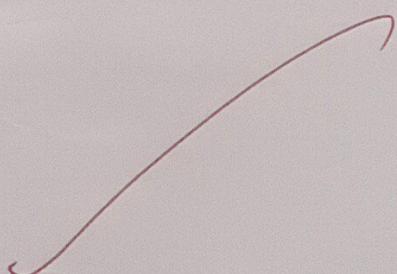
Step 1 : Start the Program

Step 2 : Accept the amount form user on books
groceries and transport

Step 3 : calculate the total expenses by summing
all three amount

Step 4 : Display the total amount

Step 5 : End the Program



same input:

(values are already assigned in the Program
manual input required)

Books : ₹ 150

Groceries : ₹ 220

Transport : ₹ 90

same output

Total expense incurred by Ram : ₹ 460

Python Program

Program to calculate total expenses of kaeon

step 1: Design expenses

$$\text{books} = 150$$

$$\text{groceries} = 220$$

$$\text{transport} = 90$$

step 2: calculate total

$$\text{total_expense} = \text{books} + \text{groceries} + \text{transport}$$

step 3: Display the result

Printf ("Total expenses incurred by kaeon
total expense")

✓

Result: Thus - the Python Program built on
books all those amount of successfully
verified

Task - 1.2

Date: 06/08/25

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 weight and height.

Algorithm:

Step 1: Start the program

Step 2: Prompt the user to input their weight in kilograms

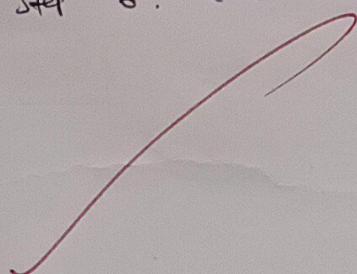
Step 3: Prompt the user to input their height in meters

Step 4: calculate BMI using the formula

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

Step 5: Display the calculated BMI

Step 6: End the program



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"))

include

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) = 22,86

✓

Result: Thus the Python Program on
the body mass index of a Person using
their weight (kg) and height (m) are
Proved.

Laya wants to calculate 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 length of all three sides are given using Heron's formula.

Algorithm:

Step 1 : Start the Program

Step 2 : Accept the length of three sides
a, b and c

Step 3 : calculate the semi Perimeter

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

Step 4 : use Heron's formula to calculate the area

$$\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$$

Step 5 : Display the area of the triangle

Step 6 : End the Program

Python Program

import math

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

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

step 4: Display result

print("The area of the triangle is " + str(area) + " square cm")

Final output from the code editor:
The area of the triangle is 10.0 square cm.

sample input

side a = 8cm

side b = 6cm

side c = 4cm

sample output

The area of the triangle is : 11,62 sq cm

EE TECH - CSE

| | |
|-------------------------|------------|
| X NO. | 1 |
| PERFORMANCE (5) | 5 |
| RESULT AND ANALYSIS (3) | 3 |
| VIVA VOCE (3) | 3 |
| RECORD (4) | 4 |
| TOTAL (15) | 15 |
| IGN WITH DATE | 9b 6/18 |

Result: Thus the area of triangle when the length of all three sides are known by Heron's formula