Task-1

Running python Script and various expressions in on interactive interprese Key term, key covered introduction to Python: Commands. Soriet

1'1 Karan Spent £ 1500n books, 7220 on grocerie and \$90 on transport. Help Him Calculate the total expenses.

Aimi to write python program that Calculates the total amedient spent by Karan on books, groceries and fransport.

Algorithm:

1. Start the program

2. Accept the amount Spent on books, groceries, and transport.

3. Calculate the total expenses by summing all the three amount.

4. Display the total amount spent.

5. End the program.

bhypos bood sam :

program to Calculate total expenses of karan

step 1: Assign expenses.

books = 150

groceries = 220 transport = 90

tython program:
program to Calculate total Expenses of of Karan

Step1: 150 Assign Expenses

600KS = 150

groceries = 220

toansport = 90

Step 2: Calculate total

total- expense= books tyroceries + transport

steps: Display the Result.

printf ("total expenses incurred by Karan! 2",
total-expense)

Sample input:

(values are already assigned in the magram
no manual input Required.)

1300KS = 2150

Gnoceries = 2200

Transport = 290

Sample output:

total expenses incurred by Karan: 2460

Result: thus, the amount spent by Faran on books, groceries and transport are prepared

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CESSIBIL DIESSO

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) and person using their weight (in kilograms) and height (in meters).

Algorithm:

1. Start the program.

2. prompt the user to imput their weight in Kilograms.

3. prompt the user to input their height in

4. Calculate BMI Lesing the formula;

BMI = Weight 2 helght 2

5. display the Calculated BMI.

6. End the program.

BMI Calculator

step 1: Get imput from the user

weight = float (imput("snter your weight in kilograms;

height = float (imput("snter your height im meters;"))

step 2: Calculate BMI

brai = weight / Cheight * * 2)

step 3: bisplay Result

print("your body Mass Index (BMI) is:",

round (bmi,2))

Sample input: Enter your weight in Kilograms: fo Enter your height in meters: 1.75

Sample output: your body mass Index (BMI) is: 22.86

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

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Laya wants to Calculate the area of a scalene triangle with sides of length 8cm, 8cm, and ucm Helpher write a python program that computes the area using terms formula:

Hom? to write a program to find the area of triangle when the lengths of all three steles are given, using Heron's formula.

A Gorithm:

1. Start the program

2. Accept or assign the lengths of the three sides ia, b, and c

3. Calculate the semi-perimeter.

S= attote

ce cese Heron's formula to Calculate the area.

Frea = \s(s-a)(s-b)(s-c) \lefta \frac{1}{2} \lefta

Result! thus, the area of triangle when the lengths of all three sides are proved by heron's formula.

```
Python program:
   import math
 # Step 1: Assign side lengths
  b=6
 # Step 2: Calculate Semi-perImeter
    S = (a+b+c)/2
# step 3: Apply Heron's formula
 area = math . sqrts (s*(s-a)*(s-b)*(s-c))
# step u: Display Result
 print ("the area of the triangle is: ", round (area,2),
                            11 square cm")
  Sample Input:
  (values are already assigned)
  Side a = 8 cm
  side be 6cm
  side c= ucm
 Sample Output:
the area of the triangle is: 11.62 Square Cm.
```