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Challenging Task-Peer Assessment 1

Profit calculation Using “ Operators”

Mr. Rama buys a 2BHK luxury apartment in Bhopal for the cost of Rs.A and he has gone for interior decorations with Rs.B cost. Luckily in his territory the government has announced a Special Economic Zone (SEZ). The demand for the flats in that area was boosted by the white collar & golden collar professionals. If he sells the flat for Rs.Z, what is his profit in percentage?

Write a Python program to compute the profit in percentage?

Input format : Three integers separated by space. Output format : The profit is:

Sample Input: Enter cost, interior decoration, selling price: 1000000 10000 5000000

Sample Output: The profit is: 395.05

```
cost, decoration, selling_price = map(int, input("Enter cost price, interior deco
ration cost, selling price: ").split())
profit = selling_price - (cost + decoration)
profit_percentage = (profit / (cost + decoration)) * 100
print("The estimated profit is: %.2f" %profit_percentage)
```

```python
cost, decoration, selling_price = map(int, input("Enter cost price, interior decoration cost, selling price: ").split())
profit = selling_price - (cost + decoration)
profit_percentage = (profit / (cost + decoration)) * 100
print("The estimated profit is: %.2f" %profit_percentage)
```

```
Enter cost price, interior decoration cost, selling price: 1000000 10000 5000000
The estimated profit is: 395.05
```

Challenging Task-Peer Assessment 2

Mr. Ashok Goel has spent ‘ n’ units of effort in preparing for UPSC examination in a year.

Can you calculate using a Python program how many hours, minutes and seconds he has

spent on attaining success.

Input format : One integer

Output format :

Hours:

Minutes:

Seconds:

Sample Input: 45678

Sample Output:

Hours: 12

Minutes: 41

Seconds: 18

```
effort = int(input("Enter the effort in units: "))
hours = effort // 3600
minutes = (effort % 3600) // 60
seconds = (effort % 3600) % 60
print("Hours:", hours)
print("Minutes:", minutes)
print("Seconds:", seconds)
```

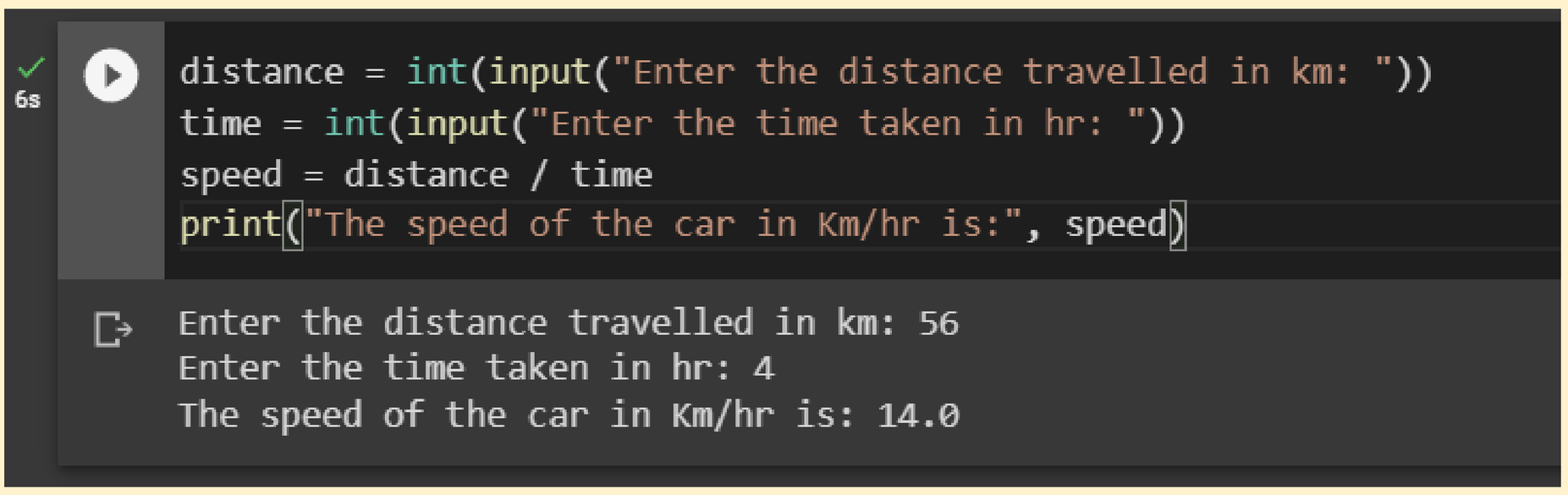
```
6s
effort = int(input("Enter the effort in units: "))
hours = effort // 3600
minutes = (effort % 3600) // 60
seconds = (effort % 3600) % 60
print("Hours:", hours)
print("Minutes:", minutes)
print("Seconds:", seconds)

Enter the effort in units: 45678
Hours: 12
Minutes: 41
Seconds: 18
```

Challenging Task-Peer Assessment 3

A car has travelled D kilometers in T hours of time. What is the speed of the car in km/hr?
Write a python program to demonstrate.
Input format: Enter integers for distance and time
Output format: The speed of the car in Km/hr is:
Sample Input:
56
4
Sample Output:
14.0

```
distance = int(input("Enter the distance travelled in km: "))
time = int(input("Enter the time taken in hr: "))
speed = distance / time
print("The speed of the car in Km/hr is:", speed)
```



Challenging Task-Peer Assessment 4

The hypotenuse is the longest side of a right angled triangle. Using Pythagoras’ s theorem,
calculate the third side and also the area of the right triangle.
Input format: Enter two integers for width and height
Output format: The third of the triangle is:
Area of the right angled triangle is:
Sample Input:
Enter width: 7
Enter height: 8
Sample Output:
The third of the triangle is:10.63
Area of the right angled triangle is:28.0

```
width = int(input("Enter the width of the triangle: "))
height = int(input("Enter the height of the triangle: "))
third = ((width ** 2) + (height ** 2)) ** 0.5
area = 0.5 * width * height
print("The third of the triangle is: %.2f " %third)
print("Area of the right-angled triangle is: %.1f " %area)
```

```python
width = int(input("Enter the width of the triangle: "))
height = int(input("Enter the height of the triangle: "))
third = ((width ** 2) + (height ** 2)) ** 0.5
area = 0.5 * width * height
print("The third of the triangle is: %.2f " %third)
print("Area of the right-angled triangle is: %.1f " %area)
```

```
Enter the width of the triangle: 7
Enter the height of the triangle: 8
The third of the triangle is: 10.63
Area of the right-angled triangle is: 28.0
```