

## **PYTHON LAB:**

Write a program that will ask a distance for a runner in kilometer and that will convert it in miles, the feet, inches and meters.

## **SOLUTION:**

### **Code:**

```
PYTHON_LABS > distance_conversion.py > ...
1  # This Program will take a distance in Km you did and convert it in miles the feet and inches
2  print('Code to convert km to miles, to feet, to meter and then to inches.')
3  print("Enter information needed")
4  name= input('What is your name: ')
5  dist_km= input('What is the distance you did in km: ')
6  #Declaration of variables
7  a=1.609
8  b=3280.84
9  c=39370.1
10 d= 1000
11 top_level = "#" * 65
12 #Conversion
13 dist_mi= float(dist_km) / a
14 dist_ft= float(dist_mi) * b
15 dist_in= float(dist_km) * c
16 dist_me= float(dist_km) * d
17 #Result
18 print(top_level + "\n")
19 print(f'Hello {name.title()},' "\n" )
20 print(f'The distance you made today is {dist_km} km is equivalent to {dist_mi:0,.2f} miles.')
21 print(f'Then {dist_km} km is equivalent to {dist_ft:0,.2f} feet.')
22 print(f'Also, {dist_km} km is equivalent to {dist_me:0,.2f} meter.')
23 print(f'And finally {dist_km} km is equivalent to {dist_in:0,.2f} inches.' "\n")
24 print(f'Thank you for being a great runner!' "\n" )
25 print(top_level + "\n")
26
```

## **Result Displayed:**

```
● josephmbatchou@Josephs-MacBook-Air PYTHON_LABS % python3 distance_conversion.py
Code to convert km to miles, to feet, to meter and then to inches.
Enter information needed
What is your name: Claudio
What is the distance you did in km: 10
#####

Hello Claudio,

The distance you made today is 10 km is equivalent to 6.22 miles.
Then 10 km is equivalent to 20,390.55 feet.
Then 10 km is equivalent to 10,000.00 meter.
And finally 10 km is equivalent to 393,701.00 inches.

Thank you for being a great runner!

#####

○ josephmbatchou@Josephs-MacBook-Air PYTHON_LABS %
```