EWL after 60 years : 4931200.0 Traffic Index : 7.577910657490486 Pavement Thickness: 36.847136933326986 cm

```
#To Calculate the length of transition curve
V= int(input("Enter the value of design speed:65 "))
R= int(input("Enter the value of Radius of curvature:220 "))
N= int(input("Enter the value of slope:150 "))
                                                                        W= float(input("Enter the value of width of road including extra widening.7.5 "))
emax=float(input("'enter the value for plain terain:0.07'"))
ecal= (V*V/(225*R))
print("The value of Super elevation: ",ecal) if ecal<emax else print(emax)
Ls=(emax*N*W/2)
print("The length of transition curve:", Ls)

→ Enter the value of design speed:65 65
     Enter the value of Radius of curvature: 220 220
     Enter the value of slope:150 150
     Enter the value of width of road including extra widening:7.5 7.5
     'enter the value for plain terain:0.07'0.07
     0.07
     The length of transition curve: 39.375000000000001
< O2
R = int(input(" Constant R: "))
C = int (input (" Constant C: "))
import numpy as geek
A = int(input ("Total Data Values for EWL Constant: "))
B = int(input ("Total Data Values for AADT: "))
EWL Constant = []
AADT = []
for i in range (1, A+1):
    print ("Enter EWL Constant:") # Indent this line
    A = float (input()) # Indent this line
    EWL_Constant. append(A) # Indent this line
for j in range (1, B+1): # Fix typo here: 1 -> 1
    print ("Enter AADT: ") # Indent this line
    B = float (input ()) # Indent this line
    AADT. append (B) # Indent this line
product = geek. dot (EWL Constant, AADT)
# print(" Dot Product # Remove or comment out this line
Total_EWL = product # Fix variable name here: Total EWL -> Total_EWL
print (" Total EWL :", Total_EWL)
print ("EWL after 60 years :", Total_EWL*1.6)
TI = 1.35*(((1.6* Total_EWL) + ((product) /2)) **0.11)
print ("Traffic Index : ", TI)
Output = 0.166*TI* (99-R)/(C**0.2) # Assign the result to a variable named Output
print ("Pavement Thickness: ", Output, "cm") # Print the calculated output
      Constant R: 48
      Constant C: 16
     Total Data Values for EWL Constant: 4
     Total Data Values for AADT: 4
     Enter EWL Constant:
     Enter EWL Constant:
     Enter EWL Constant:
     2460
     Enter EWL Constant:
     4620
     Enter AADT:
     3750
     Enter AADT:
     Enter AADT:
     320
     Enter AADT:
     120
      Total EWL : 3082000.0
```

```
P = float(input(" Load in kg: ")) # Assign the input value to P
p = float(input (" Tyre pressure kg/cm^2: ")) # Assign the input value to p
M = int (input ("Total Number of layers in a given Pavement :
pi = 3.14159
CBR = []
for i in range (1, M+1):
print ("Given that bitumen layer of 4 cm")
→ Load in kg: 4085
```