```
#To Ciculate the length of transition curve
V= int(input("inter the value of design speed:65 "))
R= int(hput("Enter the value of Andius of an entere.228 "
                                                                      Finholtan Rychons.
N= int(input("Enter the value of slope:150 "))
We float(input('Inter the value of width of road including matra wilening:7.5 "))
max=float(input("'enter the wlue for plain terain:0.07'"))
ecal= (V*V/(225*R))
print("The value of Super elevation: ",ecal) if ecalcemax else print(mmax)
Ls=(max*N*W/2)
print("The length of transition curve:", is)
 inter the value of design speed:65 65
     inter the value of Radius of curvature: 220 220
     inter the value of slope: 150 150
     inter the value of width of road including extra widening: 7.5 7.5
     'enter the value for plain terain:0.07'0.07
     6.07
     he length of transition curve: 39.37500000000001
< 02
R = ist(input(" Constant #: "))
C = ist (input (" Constant C: "))
import numpy as geek
A = ist(input ('Total Dat: Values for EWL Constant: "))
8 - ist(input ("Total Data Values for AADT: "))
EML_Constant - []
[] + TOAA
for i in runge (1, A+1):
    print ("Enter Bil Constant:") # Indent this line
    A = float (input()) # Indent this line
    Bi_Constant. append(A) # Indent this line
for j in range (1, 8+1): # Fix typo here: 1 -> 1
    print ("Enter MOT: ") # Indent this line
    H = float (input ()) # Indent this line
    MDT. append (W) # Indent this line
product = geek. dot (EWL_Constant, AADT)
# prirt(" Dot Product # Remove or comment out this line
Total_EVL = product # Fix variable mame here: Notal_EVL -> Total_EVL
print (" Total Bet :", Total_Ewt)
print ('Elvi. after 60 years :", Total_Elvi.+1.6)
TI = :.35*(((1.6* lbtal_Eml) + ((product) /2)) **0.11)
print ("Traffic Index : ", TI)
Output = 0.166*T1* (99-H)/(C**0.2) # Assign the result to a variable named Output
print ("Pavement Thickness: ", Output, "cm") # Print the calculated output
    Constant #: 48
     Constant C: 16
     Extal Data Values for BVL Constant: 4
     btal Data Values for AADT: 4
     inter EWL Constant:
     130
     inter EWL Constant:
     10:70
     inter EWL Constant:
     2468
     inter EWL Constant:
     2528
     inter AADT:
     D'Sh
     inter AADT:
     inter AADT:
     1749
     inter AADT:
     Total Eld. : 3082000.0
     ML after 60 years : 4931200.0
     Iraffic Index: 7.577918657498486
     Avenent Thickness: 36.847136933326986 cm
```

```
#(input(" load in kg: ")) # Assign the input
#(input (" Tyre pressure kg/cm²2: ")) # Assign he
(Gravut ("Total humber of layers in a given Pavements")
[1]

i in range (1, H=1):
print ("California Bearing Ratio of Material in %")
COM_value = Float (input ())

T * ((1.75*P) (COM_value) - (P/(p*pi)) ) **0.5 * Now P and p have walld float aligns
print ("Thickness Above this layer: ", ", "cm")

int ("Given that hitumen layer of 4 cm")

d. In kg: 4005

**ssore kg/cm*2: 7

f. layers in a given Pavement: 1

**Ratio of Paterial in %

11.712799015896818 cn

**al in %

**171279015896818 cn

**al in %

**1712799015896818 cn

**1712799015896818 cn
P - float(input(" load in kg: ")) # Assign the input walke to P
p = float(input (" Tyre pressure kg/cm^2: ")) # Assign the inort value to p
H = 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 os")

    → Load in kg: 4085
```