```
als Calculate the length of transition serve
   to intilipati Enter the value of dealer speeding Till
   to intripute Enter the value of Earlie of convators 228 113
                                                                               SONANA ROCKARY
  Se tell (input ( Teder the value of also 150 ))
  a- thrat(input) Teter the value of width of read including rates will-upon $15 '1)
  sease (Inat(input) cotor the value for plain terain 0.02 1).
  ered (N*V/1255k))
Crist: The sales of Soper Vievation (ered) if colleges size print(esse)
   1 - 1 (= 1 + 1 + 1 + 1 / 2 )
  sensitive tength of transition ourse ", is)
   in terms the value of design appeal of at
       form the value of Eadjus of curvature 720 220 into the value of slope 17: 150 into the value of width of road on inding extra widening:7.5 7.5
        onter the value for plain ferain; 0.07'0.07
       The length of transition curve: 19.375000000000000
 Q2
 8 - intimput(" Constant #: "))
 C = int (input (" Constant C
 Import rempy as great
 A = int()oput ('Intal Data Values for Est Constant ('))
 B - set(input ("Intal Data Values for ANDT "))
 ( constant . )
 A501 - []
 For 1 in range (1, Ari):
    print ( leter (w. Constant; ") # Indent this line
     8 + floor (input()) * Indent this line
Fal_Constant append(A) # Indent this line
for j in range (1, 0-1) # fix typh here: 1 -> 1-
print ("leter A401;") # Indent this line
     6 + finat creput ()) # Indeet this line
     AADI, append (b) # indent this line
product - gook, dot (fw2_finitant, AADI)
 Forint Color Product & Assort or comment out this line
fortal_imi - product 2 fix variable name here: fortal fat -> fortal_fat
print (" futal (ms a", lotal_(mi)
print ("fix), after to years (", total_fixt."1.6)
11 + 1.35*(((1.6* lotal_thm) + ((product) /2)) **0.11)
print ("Traffic Index
Output = 0.160*f1* (99-8)/((****.2) # Assign the result to a variable rased Output
print ("Peverent Thickness ", Output, "cm") # Print the calculated output
     Constant B: 48
      Constant C: 16
     fotal Data Values for twi Constant: 4
     total Data Values for AADI: 4
     Enter Ewi Constant:
     130.
    Inter Dat Constant:
     1070
    Inter IWL Constant:
    2460
    Inter Ed Constant:
     4628
    Enter AADT
    1750
    inter AADT:
    470
    feter AADI:
    9.745
    Inter Appt:
     lotal fat : 3002000 0
    tik atter 60 years 4931200.0
    frattir Index 7.577910057498486
   Parement Unickness: 36.847136933326986 cm
```

~ Q3

```
r = flast(input(" soad in kg: "1) * Assign the input willer to it
p = flast(input (" fyre pressure by " * ! " !) # Assign the input builter to it
m = int (input | Total Washer of layers in a given Payment ! !!)
     pt - 3.24159
    COR. + ()
                                                                                                                                                                                                                                                                                                                                                                                                                                                  And Colones and Andrews and An
for 1 to range (1, 201);
                       print ("California Braning Ratio of "storial in %")
    CME_value = float (toput +);

T = {12.75*Pin (CME_value) (Priptpi)) } **0.5 # Now P and p have valid *fest walues

print ("Thickness % ove this layer: ", I, +=")

print ("Given that bituren layer of I = 1)
        tive pressure egicand: 7
Total Number of Layers in a given Pavement | 1
Colifornia Reasing Ratio of Material in X
                                Duckress Above this layer: 11.71279901569656 cm
California Bearing Matio of Material in 3
                                 12
                                Thickness Above this layer: 28.247776598573137 cm
Colifornia Hearing Matio of Material in X
                               Thickness 200ve this layer: 38.831276187723645 cs
Given that bitumen layer of 4 cm
```