```
# Stress When depth is constant
Q = float (input ("Enter the value of Load in kN: "))
N = int(input ("Number of data values of radial distance: "))
pi = 3.14159265359
Z = float(input ("Depth: "))
r = []
for i in range (1, N+1):
  print("Enter radial distance in m".format (i))
  Value_r = float(input () )
  r.append(Value r)
  Stress = ((3*Q)/(2*pi*Z*Z)) * (((1/(1+((Value_r/Z)**2))))**2.5)
  print("'Stress: ", Stress, "kN/m^2")

    Enter the value of Load in kN: 2500

      Number of data values of radial distance: 5
      Depth: 6
      Enter radial distance in m
      'Stress: 30.962130445358056 kN/m^2
      Enter radial distance in m
      'Stress: 25.479163627894877 kN/m^2
      Enter radial distance in m
       'Stress: 18.98033449112347 kN/m^2
      Enter radial distance in m
       'Stress: 13.22290223969301 kN/m^2
Enter rau...

S

'Stress: 8.871775810212231 ...

:ress when Radius is Constant
  float (input("Enter the value of Load in kN: "))
  int (input ("Number of data values of depth: "))

= 3.14159265359

: float(input("Radial Distance: "))

= []

r j in range (1, M+1):
  print("Enter depth in z".format (j))

Value_Z = float(input ())

Z.append(Value_Z)

Stress = ((3*Q)/(2*pi*Value_Z*Value_Z))*(((1/(1+((r/Value_Z)**2))))**2.5)
  print("'Stress: ", Stress, "kN/m^2")

The value of Load in kN: 2500

The values of depth: 6
      Enter radial distance in m
# Stress when Radius is Constant
Q = float (input("Enter the value of Load in kN:
M= int (input ("Number of data values of depth: "))
pi = 3.14159265359
r = float(input("Radial Distance: "))
Z = []
for j in range (1, M+1):
      'Stress: 4.781320614736756 kN/m^2
      Enter depth in z
      'Stress: 7.0974399578803125 kN/m^2
      Enter depth in z
      'Stress: 8.440465463972316 kN/m^2
      Enter depth in z
      'Stress: 8.871775810212231 kN/m^2
# Calculating the stress by Boussineq's Theory
Q= int(input("Enter the value of given load :"))
z= int(input("Enter the distance of vertical stress :"))
r= int(input("Enter the distance ofhorizntal stress:"))
stress = ((3*Q*(1/(1+(r/z)**2)) **2.5))/(2*3.14*(z**2))
print("The value of stress is", stress)
     Enter the value of given load :2500
      Enter the distance of vertical stress :6
      Enter the distance ofhorizntal stress:5
      The value of stress is 8.876275703713446
```