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#Lab Exercise - 1
#Que1: WPP which accept the radius of a circle from the user & compute the area.
\# Sample output : r=1.1 , Area = 3.8013271108436504
import math
r = float(input("Enter the radius :"))
a = math.pi*r**2
print("The area of circle is :",a)
#Que2: Temperature of a city in Fahrenheit degrees is input through the keyboard.
       WAP to convert this temperature into Centigrade degrees.
fah = int(input("Temperature in Fahrenheit : "))
cen = (fah-32)*5/9
print("Conversion from Fahrenheit to Centrigrade :",cen)
#Que3: WPP to make a simple calculator that can add, subtract, multiply and divide.
x = int(input("Enter the first number : " ))
y = int(input("Enter the second number : " ))
a = x+y
s = x - y
m = x*y
d = x/y
print("Addition :",a,'\n'"Subtraction :",s,'\n'"Multiplication :",m,'\n'"Division
:",d)
#Que4: WPP to calculate the square root.
import math
a = int(input("Enter the number : "))
b = math.sqrt(a)
print("The square root is :",b)
#Que5: WPP to Solve the quadratic equation ax^*2 + bx + c = 0
       Coefficients a, b and c are provided by the user.
import cmath
a = int(input("Enter the value of a :"))
b = int(input("Enter the value of b :"))
c = int(input("Enter the value of c :"))
z = b**2-4*a*c
sol1 = (-b+cmath.sqrt(z))/2*a
sol2 = (-b-cmath.sqrt(z))/2*a
print("Solution of 1 quadratic equation is : ",sol1)
print("Solution of 2 quadratic equation is : ",sol2)
#Que6: WPP to find area of triangle
       #Three sides of triangle a,b and c are provided by user.
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a = int(input("Enter the 1 side of triangle :"))
b = int(input("Enter the 2 side of triangle :"))
c = int(input("Enter the 3 side of triangle :"))
s = (a+b+c)/2
Area = math.sqrt(s*(s-a)*(s-b)*(s-c))
print("Area of triangle is :",Area)
#Que7: If a five-digit number is input through the keyboard,WAP to calculate the sum
       of its digits without using any loop. (Hint: Use the modulus operator '%')
a = int(input("Enter the five digit number :"))
A = a\%10
B = a//10
sum = sum + A
C = B\%10
D = B//10
sum = sum + C
E = D%10
F = D//10
sum = sum + E
G = F%10
H = F//10
sum = sum + G
I = H%10
J = H//10
sum = sum + I
print("Sum of five digit number is :",sum)
#Que8: WPP to print the following string in a specific format.
print("""Twinkle, twinkle, little star,
       \tHow I wonder what you are!
    \t\tUp above the world so high,
    \t\tLike a diamond in the sky.
Twinkle, twinkle, little star,
    \tHow I wonder what you are""")
#Que9: WPP to display your details like name, age, address in three different lines.
print("""Name : Madhura Mohod\nAge : 23\nAddress : Amravati,Maharshtra""")
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import math