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In [ ]:
            ASSIGNMENT-4_Without arguments
In [ ]:
        # 1.wap to ask the user enter three numbers and calculate average?
In [1]: def shruthi():
            num1=eval(input("enter num1:"))
            num2=eval(input("enter num2:"))
            num3=eval(input("enter num3:"))
            sum=num1+num2+num2
            avg=sum/3
            avg1=round(avg,2)
            print(f"average of three numbers is={avg1}")
        shruthi()
       average of three numbers is=52.33
In [ ]: # 2.find the area of circle
In [3]: import math
        def shruthi():
            r=eval(input("enter radius:"))
            area=math.pi*r*r
            area1=round(area, 2)
            print(area1)
        shruthi()
       50.27
In [ ]: # 3.wap to ask user bill amount
        # ask the user howmuch tipyou want pay in percentage
        #calculate totalbill
In [4]: def shruthi():
            bill=eval(input("enter bill:"))
            tip=eval(input("entertip:"))
            total=(bill+(bill*tip/100))
            print(total)
        shruthi()
       550.0
In [ ]: # 4.wap to ask the user to enter base and height and calculate the area of triangle
In [6]: def shruthi():
            b=eval(input("enter base:"))
            h=eval(input("enter height:"))
            area=(1/2)*b*h
            area1=round(area,3)
            print(area1)
        shruthi()
       6.367
In [ ]: # 5.wap to ask the user to enter length and breadth and calculate the area of rectang
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In [7]: def shruthi():
             l=eval(input("enter 1"))
             b=eval(input("enter b:"))
             area=1*b
             area1=round(area,2)
             print(area1)
         shruthi()
        7.34
 In [ ]: # 6.find even number or odd number
 In [8]: def shruthi():
             num1=eval(input("enter num:"))
             if num1%2==0:
                 print(f"{num1} is even")
             else:
                 print(f"{num1} is odd")
         shruthi()
        45 is odd
 In [ ]: # 7.Write a programme ask the user enter the distance
         # if distance greater than 25km
         # then enter the charge
         # print the total cost
         # otherwise
         # print free ride
In [10]: def distance():
             distance=eval(input("enter the distance in kms:"))
             if distance>25:
                 charge=eval(input("enter charge:"))
                 total_cost=charge*distance
                 print(f"the total cost is {total_cost}")
             else:
                 print("freeride")
         distance()
        the total cost is 135
In [12]: # 8.Write a programme ask the user enter the distance
         # if distance greater than 25km
         # then enter the charge
         # print the total cost
         # otherwise
         # print free ride
         # implement by using random between(1,100)
In [13]: import random
         def distance():
             distance=random.randint(1,100)
             if distance>25:
                 charge=eval(input("enter charge:"))
                 total_cost=charge*distance
                 print(f"the total cost is {total_cost}")
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else:
    print("freeride")
distance()
```

freeride

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In [11]:
    def distance1():
        distance=eval(input("enter the distance in kms:"))
        cutoff_distance=25
        if distance>cutoff_distance:
            print("good news your charge is applicable for only remaining of 25")
            chargeable_distance=distance-cutoff_distance
            charge=eval(input("enter charge:"))
            total_cost=charge*chargeable_distance
            print(f"the total cost is {total_cost}")
        else:
            print("freeride")
        distance1()
```

good news your charge is applicable for only remaining of 25 the total cost is 200

You are good

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In [22]: def randomm():
             number1=random.randint(1,10)
             number2=eval(input("enter number2:"))
             if number1==number2:
                  print("You won")
             else:
                  print("You lost")
          randomm()
        You lost
 In [ ]: #12. Write a programme ask the user enter number
         # if number equal to 1 then print one
         # if number equal to 2 then print two
         # if number equal to 3 then print three
         # otherwise print enter a valid number
In [23]: def match():
             number=eval(input("enter a number:"))
             if number==1:
                  print("one")
             elif number==2:
                  print("two")
             elif number==3:
                  print("three")
             else:
                  print("enter a valid number")
         match()
        two
 In [ ]: #13. Write a programme ask the user to enter
         # if the number is greater than zero, print positive
         # if the number is less than zero, print negative
         # otherwise print zero
In [24]: def posneg():
             number=eval(input("enter a number:"))
             if number>0:
                  print("positive")
             elif number<0:</pre>
                  print("negative")
                  print("zero")
          posneg()
        negative
 In [ ]: #14. Write a programme that ask the user to enter percentage marks 0 to 100
         # if percentage greater than 90, print A grade
         # if percentage between 75 to 90, print B grade
         # if percentage between 50 to 75, print C grade
         # if percentage between 35 to 50, print D grade
         # if percentage lessthan 35, print fail
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In [25]: def marks():
             percentage=eval(input("enter percentage of marks:"))
             if percentage>=90:
                 print("A grade")
             elif percentage>=75:
                 print("B grade")
             elif percentage>=50:
                 print("C grade")
             elif percentage>=35:
                 print("D grade")
             else:
                 print("Fail")
         marks()
        C grade
 In [ ]: #15. Write a programme that asks user to enter age
         # if the age greater than 100 print you are Lucky
         # if age greater than 75 print old age
         # if age between 50 to 75, print senior citizen
         # if age between 30 to50, print middle age
         # if age between 15to 30, print young age
         #if age lessthan 15, print kid
In [27]: def age():
             age=eval(input("enter age of person:"))
             if age>=100:
                 print("You are lucky")
             elif age>=75:
                 print("old age")
             elif age>=50:
                 print("senior citizen")
             elif age>=30:
                 print("middle age")
             elif age>=15:
                 print("young age")
             else:
```

senior citizen

age()

print("kid")

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In [ ]:
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