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In [ ]: #To accept an object mass in kg and velocity in m/s and display its momentum
         #moment, e = mc , where m=mass and c=velocity
In [27]: m=float(input("Enter mass value"))
         c=float(input("Enter velocity value"))
         moment = m*c
         print("The moment of object is : ",moment,"kgm/s")
        The moment of object is: 52.89 kgm/s
In [ ]: #Write a python programming for following condition
         # 1) if n is single digit number then print square of it
         # 2) if n is two digit then print square root of it
         # 3)if n is three digit then print cube of it
In [36]: import math
         n= int(input("Enter value of n"))
         if n<10 : print("Square of n is : ",n*n)</pre>
         elif 10<=n<100 : print("Square root of n is : ",math.sqrt(n))</pre>
         elif 100<=n<1000 : print("Cube of n is : ",n**3)</pre>
         else : print("Enter valid number between 0 to 999")
        Square root of n is: 4.0
In [ ]: # Read date of birth and salary in rupees then perform data formation for date o
In [43]: from datetime import datetime
         def calculate_age(birthdate):
             today = datetime.now()
             birthdate = datetime.strptime(birthdate, "%Y-%m-%d")
             return today.year - birthdate.year - ((today.month, today.day) < (birthdate.
         def salary_in_dollars(salary_in_rupees, conversion_rate=82.5):
             return salary_in_rupees / conversion_rate
         birthdate = input("Enter birthdate (YYYY-MM-DD): ")
         salary = float(input("Enter salary in rupees: "))
         age = calculate age(birthdate)
         salary_usd = salary_in_dollars(salary)
         print(f"Age: {age} years")
         print(f"Salary in USD: ${salary_usd:.2f}")
        Age: 18 years
        Salary in USD: $1212.12
In [ ]: #Print the reverse number of a given number
In [41]: number = int(input("Enter a number: "))
         reverse number = int(str(number)[::-1])
         print(f"Reversed number: {reverse_number}")
        Reversed number: 321
In [ ]: #Print multiplication table of number n.
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