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In [1]:
          ### Task-2 Find the factors of a number
        Daily Task - 2
        Submit 2 examples for each module.
          1. for loop
          2. user defined functions without for loop
          3. user defined functions with for loop
          4. for loop with in operator
          5. for loop with not in operator
In [3]:
          ### Find the factors of a number
In [4]:
          x= int(input("Enter your number: "))
          for i in range(1,x+1):
              if x%i == 0:
                  print(i)
         Enter your number: 70
         1
         2
         5
         7
         10
         14
         35
         70
In [5]:
          #### 1. For Loop
In [6]:
          colors= ['yellow','red','white','black','maroon']
In [7]:
          for i in colors:
              print(i)
         yellow
         red
         white
         black
         maroon
In [8]:
          list= {12,23,34,45,56,78}
In [9]:
          for i in list:
              print(i)
         34
         23
         56
         12
```

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78
In [10]:
          zoo=['tiger','bear','zirraffe','elephant','kangaroo']
In [11]:
          for i in zoo:
               print(i)
         tiger
         bear
         zirraffe
         elephant
         kangaroo
In [12]:
          for i in range(1,7):
              print(i)
         1
         2
         3
         4
         5
         6
In [13]:
          ### 2. User-defined function without for loop
In [14]:
          x= int(input("Enter your number: "))
          def square_num(x):
              return x**2
          print("Square of the number is: ",square_num(x))
         Enter your number: 30
         Square of the number is:
                                    900
In [16]:
          y= int(input("Enter your number: "))
          def remainder(y):
              return y%3
          print("Remainder is: ",remainder(y))
         Enter your number: 109
         Remainder is: 1
In [17]:
          ### 3. Use-defined function with for Loop
In [18]:
          def print_numbers(n):
               for i in range(1,n+1):
                   print(i)
In [19]:
          print_numbers(10)
         1
         2
         3
         4
         5
```

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                                                             Task 2
              6
              7
              8
              9
              10
    In [20]:
               def my_func(*arg):
                   for i in arg:
                        print(i)
               print("Arguement values are: ")
               my_func("Welcome","home")
              Arguement values are:
              Welcome
              home
    In [21]:
               def func_2(**key):
                   for i in key:
                        print(i)
               print("key arguements are: ")
               func_2(key_1="large",key_2="medium",key_3="small")
              key arguements are:
              key_1
              key_2
              key_3
     In [ ]:
    In [22]:
               ### 4. For loop with IN operator
    In [23]:
               fruits= ["pine","strawberry","mango"]
    In [24]:
               for x in fruits:
                   print(x)
              pine
              strawberry
              mango
    In [25]:
               anim=["lion","bear","tiger","ape"]
    In [26]:
               for i in anim:
                   print(i)
              lion
              bear
              tiger
              ape
    In [27]:
               for i in "Elephant":
                   print(i)
              Ε
```

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11/17/23, 7:58 PM Task_2 e р h а n t In [28]: for i in anim: print(i) if i== "tiger": break lion bear tiger In [29]: for i in fruits: if i=="mango": break print(i) pine strawberry