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```
In [7]:
In [8]: s="sudh"
        c = 45.67
        l=[2,3,4,5,6,'sudh',(3+7j),True,34,56]
        t1=(1,2,3,4)
In [ ]:
In [5]: 1=[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25]
        for i in 1:
            if i%3==0:
                 print(i, 'the no is divisble by 3')
            else:
                 print(i, 'the no is not divsible by 3')
        1 the no is not divsible by 3
        2 the no is not divsible by 3
        3 the no is divisble by 3
        4 the no is not divsible by 3
        5 the no is not divsible by 3
        6 the no is divisble by 3
        7 the no is not divsible by 3
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        17 the no is not divsible by 3
        18 the no is divisble by 3
        19 the no is not divsible by 3
        20 the no is not divsible by 3
        21 the no is divisble by 3
        22 the no is not divsible by 3
        23 the no is not divsible by 3
        24 the no is divisble by 3
        25 the no is not divsible by 3
In [2]:
In [6]: 1=[2,3,4,5,6,7,8,"sudh",23.45,True]
        for i in 1:
            print(type(i))
            if i==' ':
                 continue
            print(i)
        else:
            print("this will be executed once for loop will complete itself successfully")
```

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```
<class 'int'>
         <class 'str'>
         sudh
         <class 'float'>
         23.45
         <class 'bool'>
         True
         this will be executed once for loop will complete itself successfully
In [13]: #Q1
         var2='[d1,m1,ds]'
         var1=''
In [15]: type(var2)
Out[15]: str
In [14]: type(var1)
Out[14]: str
In [11]: var3=['dl','ml','python']
In [12]: type(var3)
Out[12]: list
In [16]: var4=1
         type(var4)
Out[16]: int
In [22]: #Q3
         #1)/-divsion operator divides Left hand operand by right hand operand
         #2)%-Module-Module operator to get remainder in integer division.
         #3)//-division floor, performs divsion and gives only integer quotient.
         #ex-4//2
```

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```
#4)**-Exponent operator, calculates exponential power value.
         #ex-2**3
         #07
In [24]:
         #Mutable data type- allows us to change data in particular index.
         #Immutable data type- does not allows to change data in particular index.
         #Ex List, set, Dictionaries are mutable data type.
         #Tuple, Integers, Strings are immutable data type.
In [25]: #LIST EX
         l=[2,3,4,5,'sudh']
         1[1]=300
In [26]: 1
Out[26]: [2, 300, 4, 5, 'sudh']
In [28]: #String EX
         s="sudh"
         s[1]='a'
         TypeError
                                                    Traceback (most recent call last)
         Cell In[28], line 3
               1 #String EX
               2 s="sudh"
          ----> 3 s[1]='a'
         TypeError: 'str' object does not support item assignment
In [30]: #Q5
In [31]: m=int(input("enter no 1"))
         n=int(input("enter no 2"))
         if m%n==0:
             print("no 1 is divisible by no 2")
         else:
             print("no 1 is not divisible by no 2")
         no 1 is divisible by no 2
 In [ ]:
```