```
#1.
list=[]
new_list=[]
n=int(input("Enter the value of n:"))
for i in range(n):
       l=int(input())
        list.append(1)
print("List:",list)
for j in (list):
    s=j*j
    new_list.append(s)
print("new_list:",new_list)
#2.
list=[1,'abc',2.5,'xyz',4,6.6]
int_list=[]
string_list=[]
float_list=[]
for i in (list):
    if type(i)==int:
         int_list.append(i)
    elif type(i)==float:
         float_list.append(i)
    elif type(i)==str:
         string_list.append(i)
print("List containing int:",int_list)
print("List containing string:",string_list)
print("List containing float:",float_list)
```

```
#3.
```

```
n=int(input("Enter the value of n:"))
for i in range(n):
    for j in range(i+1):
        print(str(j+1),end=' ')
   print()
#5.
sum=0
n=int(input("enter a number"))
s=n
if (n>=100 and n<=999):
    while(n!=0):
        r=n%10
        sum=sum+(r*r*r)
        n=n//10
elif (n>=1000 and n<=9999):
    while(n!=0):
        r=n%10
        sum=sum+(r*r*r*r)
        n=n//10
if sum==s:
    print("narcissistic no")
else:
    print("Not")
```

```
In [1]: import numpy as np
 In [2]: a=np.array([[[1,2,3],[4,5,6],[7,8,9]]])
 In [3]: b=np.array([[[11,22,33],[44,55,66],[77,88,99]]])
 In [4]: a.reshape(3,3)
Out[4]: array([[1, 2, 3],
                [4, 5, 6],
                [7, 8, 9]])
 In [5]: b.reshape(3,3)
Out[5]: array([[11, 22, 33],
                [44, 55, 66],
                [77, 88, 99]])
In [7]: sum=np.array([[[0,0,0],[0,0,0],[0,0,0]]])
 In [8]: sum.reshape(3,3)
Out[8]: array([[0, 0, 0],
                [0, 0, 0],
                [0, 0, 0]])
In [13]: for i in range (len(a)):
             for j in range (len(b[0])):
                 sum[i][j]=a[i][j]+b[i][j]
         for s in sum:
             print("sum:",s)
         sum: [[ 12 24 36]
          [ 48 60 72]
          [ 84 96 108]]
```