**PROGRAM:**

list1=[]

n=int(input("Enter number of elements:"))

for i in range(1,n+1):

no=int(input("Enter element:"))

list1.append(no)

even=[]

odd=[]

for j in list1:

if(j%2==0):

even.append(j)

else:

odd.append(j)

print("#printing even and odd list")

print("The even list",even)

print("The odd list",odd)

**OUTPUT**

