*#program*def even(list1):  
 list2=[]  
 for i in list1:  
 if i % 2 == 0:  
 list2.append(i)  
 return list2  
  
list2 = even([1,5,7,4,6,8,10,12])  
print("Even numbers are" ,list2)  
  
*#program*def add(\*numbers):  
 total=0  
 for n in numbers:  
 total=total+n  
 print("Sum is ",total)  
  
add()  
add(4,5,6,7)  
add(20,30,40,50)  
  
*# #Program*def fact(n):  
 if n ==0:  
 return 1  
 else:  
 return n\*fact(n-1)  
print("factorial of a number ",fact(7))  
  
 *#Program -lambda function*l=[2,5,6,10,12,14,18]  
even\_no= list(filter(lambda x: x % 2 ==0,l))  
print("Even numbers are ",even\_no)  
  
*#program - ATM program*while True:  
 print("1 Deposit")  
 print("2 Withdrawal")  
 print("3 Balance")  
 a = input("Enter the option")  
 amount=100000  
 if a =="1":  
 s=int(input("Enter the Deposit amount"))  
 c = amount+s  
 print("total balance",c)  
  
 elif a =="2":  
 f = int(input("Enter the Withdrawal amount"))  
 g = amount - f  
 print("Total balance ",g)  
 elif a =="3":  
 print("Existing balance", amount)  
  
 b=input("Do you want to continue ?(yes/no)")  
 if b == "no":  
 print("Thank you")  
 break  
 elif b =="yes":  
 continue

Output:

Even numbers are [4, 6, 8, 10, 12]

`````````````````````````````````````````````````````````

Sum is 0

Sum is 22

Sum is 140

``````````````````````````````````````````````````````

factorial of a number 5040

````````````````````````````````````````````````````````

Even numbers are [2, 6, 10, 12, 14, 18]

```````````````````````````````````````````````````````

1 Deposit

2 Withdrawal

3 Balance

Enter the option1

Enter the Deposit amount4254

total balance 104254

Do you want to continue ?(yes/no)yes

1 Deposit

2 Withdrawal

3 Balance

Enter the option2

Enter the Withdrawal amount1000

Total balance 99000

Do you want to continue ?(yes/no)no

Thank you

``````````````````````````````````````````````````````````````````````````````````