1. Write a Python program which accepts a sequence of comma-separated numbers from the user and generate a list and a tuple with those numbers.

```
i=input("enter the numbers separated by commas:").split(",")
print("list:",i)
print("tuple:",tuple(i))
```

2. Write a Python program to print all even numbers from a given numbers list in the same order and stop the printing if any numbers that come after 237 in the sequence.

3. Write a python program for binary search to search a number in the list of given numbers. If the number isnt present, give the appropriate message. Both the list and the number to be searched is given by the user.

```
def binary_search(item list,item):
    first = 0
    last = len(item_list)-1
    found = False
    while( first<=last and not found):</pre>
        mid = (first + last)//2
        if item_list[mid] == item :
            found = True
        else:
            if item < item list[mid]:</pre>
                last = mid - 1
            else:
                first = mid + 1
    return found
n=int(input("enter the number of elements:"))
arr=[]
for i in range(0,n):
    ele=int(input())
    arr.append(ele)
```

```
n=int(input("enter the element to be searched:"))
if (binary_search(arr, n)):
     print("the element is present in the list")
else:
    print("the element is not present in the list")
4. Write a Python program to calculate the sum of the digits in an integer.
n=int(input("enter a number:"))
s=0
while(n>0):
  dig=n%10
  s=s+dig
  n=n//10
print("the sum of the digits is :",s)
5. Write a Python program to check if a string is numeric.
string=input("enter a string:")
count = 0
for a in string:
    if (a.isnumeric()) == True:
        count=-1
        break
```

if (count!=0):

else:

print("the string is numeric")

print("the string is not numeric")