

Lab 5 task

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**Program 1:**

def Binary\_Search(list,val):

first=0

last=len(list)-1

while (first <= last):

mid = first+last//2

print ("System Number",mid)

if list[mid]==val:

print("Your Number Is Same")

break

else:

if val > list[mid]:

print("Your Number Is Greater")

break

elif val < list[mid]:

print("Your Number Is less")

break

list1=[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30]

value=22

print(Binary\_Search(list1,value))

**Program 2:**

list1=[1,1,2]

list2=[1,2,3]

counter1=0

counter2=0

counter3=0

for i in range(0,len(list1)):

for j in range (0,len(list2)):

if list1[i]==1 and list2[j]==1:

counter1 +=1

if list1[i]==2 and list2[j]==2:

counter2 +=1

if list1[i]==3 and list2[j]==3:

counter3 +=1

num=[counter1,counter2,counter3]

print(num)