## **Ex. No. : 5.1** String characters balance Test

**Program:**

a=input() b=input() if a in b or b in a: print("True") else:

print(“False”)

## **Ex. No. : 5.2** Decompress the String

**Program:**

s=input() r="" i=0 while i< len(s):

char=s[i] i+=1 num="" while i<len(s) and s[i].isdigit(): num+=s[i]

i+=1 r+=char\*int(num) print(r)

## **Ex. No. : 5.3** First N Common Chars

**Program:**

a=input() b=input() n=int(input()) bset=set(b) cc=[] c=0 for i in a: if i in bset and i not in cc:

cc.append(i) c=c+1 if(c==n): brea =''.join(cc) print(s)

## **Ex. No. : 5.4** Username Domain Extension

**Program:** s=input() at=s.index('@') dot=s.index('.') username=s[:at] domain=s[at+1:dot] exten=s[dot+1:] print(exten) print(domain) print(username)

### **Ex. No. : 5.5** Count Chars

**Program:**

x=input() a,b,c=0,0,0 for i in x: if(i.isalpha()):

a+=1 elif(i.isalnum()): b+=1 else: c+=1

print(a,b,c,sep="\n")

### **Ex. No. : 5.6** Reverse String

**Program:**

s=input() l=[] for i in s:

if(i.isalpha()): l.append(i)

l.reverse() r=''

index=0 for i in s: if(i.isalpha()): r+=l[index] index+=1 else: r+=i print(r)

## **Ex. No. : 5.7** Longest Word

**Program:**

sen=input() words=sen.split() l="" maxi=0 for word in words: if(len(word)>maxi): l=word maxi=len(word) print(l,maxi,sep="\n")

### **Ex. No. : 5.8** Remove Palindrome Words

**Program:**

s=input() words=s.split() x='' for word in words: word=word.lower() if (word!=word[::-1]): print(word,end=" ")

### **Ex. No. : 5.9** Remove Characters

**Program:**

s1=input() s2=input()

x=''.join(char for char in s1 if char not in s2) print(x)

### **Ex. No. : 5.10** Unique Names

**Program:** l=[] while(True): a=input() if a!=" ":

l.append(a) else:

break l=dict.fromkeys(l) for i in l: print(i)