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Course Code:- CSA 0962 — Assignment-2.

1) Find the length of Longest substring of a given string without repeating charecter.

```
Import Java.util. HashMap;
class Longest substring {
    Public Static void Main(String args[]){
    String str="ABCDEFGHABED";
     int n=str.length();
      int res=0, i=0;
    HashMap<Character, Integer> lastIndex =new HashMap
    for(j=0; j<n; j++){
     if (lastIndex.containskey(str.Char[g]))){
       i= Math.Max (i, lastIndex.get(str,CharAt(j))+1);
     }
       res= Math.Max(i, lastIndex.get(str,charAt(g-i+1);
       res=Math.Max (res, j-i+1);
  Character
       last.Index.Pore (str.CharAt(j) i);
   }
  system.out.Println("Length of longest Substring is"+res)
```

2) Write a java Program to remove the duplicate Charates that appers in anther given string.

```
Import java.util.*;
  Class Remove{
      Public static void Main(String arg[]){
      String str1="The quick brown fox";
      String str2="queen";
      system.out.Println("The given string is:"+str1);
      Char arr[] =new Char[str].length()];
      size 256 (ASCII characters).
       Char[] Mark =new Char [256];
       count occurrences of each other.
       For(int, i=0; i<str.length(); i++)
          Mark[str2.charAt(i)]++;
       System.out.Println("The new string is");
       Print the first string.
        For (int i=0; i<str1.length(); i++){
        if (Mark[str].CharAt(i)]==0)
            system.out.Println(str1.charAt(i));
     }
    }
   }
```

Input:- str1 = "The quick brown fox"
str2 = "queen"

Output:- "The new string is: Thick brow fox".

3) Write a java program to Print a list of item containing all Characters of a given word:

```
Class Main{
  Public Static Void Main(String args[])
  {
     String S1 = "Hello world";
     String S2 = "Hello";
  boolean Startwith = str1.Startswith(S2);
   if (startswith){
   System.out.Print("String with Specific Perfix");
   }
   else.
      System.out Print("String do not specified Prefix");
   }
  }
 }
```

Input:- "Hello world" S2:- "Hello"

Output:-

4) write a java Program to find the second Most frequent character in a string.

```
import. Java util. HashMap;
import Java.Util. Map;
Class Frequent{
     Public Void Main (String args[]){
   Map <Character, integer> char fequency = new HashMap<>();
   For (char c: str. to Char Array()){.
     char frequency.put(char, frequency.get of Default
     -1);
   }
  }
 }
```

Input: Str = "HUNAMALA BHARATH"

Output:- "2nd Most Frequent Character is 'M' 'N'"

5) Write a java program to a string starts from another string.

A)
```
import Java.util.*;
   Public static void Main (String args[]){
     String S1 = "Helloworld"; S2 = "Hello";
    booleen strats with = str2.Stratwith (S2);
     if (Strats with){
    System.out.Print(String with Specific Perfix);
    else {
     System.out.Println ("String donot specific Perfix").
     }
    }
   }
```

Input: S1 = Hello world

S2 = Hello

Output:- "String with Specific Perfix."