Name: P. Bharath Kumar Reddy Regno: 192372050

Pæignment 2 1) Find the length of Longest substring of given String without seperating charactor. import Java. Util. Hosh Map; class longest substring ? Public static void main (string args (7) { string str = "ABCD EF GHABED"; Int n = str. length (); Int res = 0, i = 0; Il creating a hash map to store the last postitions. Hashmap 2 character, Integer 7 last Index = new Hoshmap 11 starting from the begining of the string <> (); for (j=0; j<n; j++) { Il If this character is seen before, that updote i If (last Index. containskey (str. cha At C)))) i=math.max (i, lastIndex. get (str, CharAtCi) ti); 4 llupdating result res = math.max (res, j-itl); Il updating the last occurrence of the current character last-Index. pure (str. chorat(i), i), system.out. println ("length of longest substring is"

```
à write a java program to remove the duplicate
   character that appeares in another given string.
   Import java util *;
    class Remove &
     Public static void main (string argent)
     Il Define two strings
     String strl= "The quick brown fox";
     String Str2 = "queen";
    11 print the given string
    system.out. printin ("The given string is:" + strili
     char arres = new char (strl. length c)];
    Il create a character away to represent a mosk
    Of size 256 (ASCII characters)
          char ( ) mask = new char (256);
   Il Loop through the characters of the mask string
  and count occurrences of each other
          for (int i=0; ic str.length (); i++)
            mask (str2. chara + (i)]++i
    system.out. printin ("the new string is");
          print the first string.
      for Cint i=0; i2str. length(); 12+){
       . if (mask (styl. charatci)] == 0)
           systemout print (stricharAf(illi
```

```
3
 Input: styl= "The quick byown for"
 Output: "The new string is : In ick brow for"
containing a large program to print a list of Item
Containing all characters of a given word
 class main {
 Public static void main (string args (7)
  4
   String Si= "Hello. world";
   String 52 = "Hello";
   boolean startswich = str1. stratswith (52);
    if (startswith) f
    system.out. Print C"string with specific perfix "
   CISE
   system out print ("string do not specified
             perfix");
       4
      3
```

```
curite a Java program to find the second most
 frequent character in a string
 import Java. util. Hoshmap;
 Import Java. util. Map;
  class frequent f
  Public static void main (string args (7) }
  map (character, Integer > char frequency =
   new Hashmap 27 () i
    for (chare: str to char Array (1) f
      chair frequency. Put Char, frequency get of
       Defeult +11 i
     4
      Input: str = "Bharlath kumar Reddy"
```

Input: str = "Bharrath kumov Reddy"

output: 2nd most frequency character

ish

```
s write a java program to a string starts from
  another string.
     import Java-util *;
    class main {
    Public static void main ( string args (7) {
     shing si= "Helloworld", sz= "Hello"
     boolean strot swith = str. 2 . stbtswith(sz) i
         IF (stratswith) {
         sy stem out print ("string with specific pertix");
        eise
           system.out. print (" string do not specific
                pertixli
            333
     Input: 51= Helloworld
             SL = Hello
```

output: "string with specific perfix"