Java intro Assignment Aditya Kumar

- Q1. Write a program to replace a substring inside a string with other string?
- Q2. Write a program to find the number of occurrences of the duplicate words in a string and print them?
- Q3. Write a program to find the number of occurrences of a character in a string without using loop?
- Q4. Calculate the number & Percentage Of Lowercase Letters, Uppercase Letters, Digits And Other Special Characters In A String
- Q5. Find common elements between two arrays.
- Q6. There is an array with every element repeated twice except one. Find that element
- Q7. Write a program to print your Firstname,LastName & age using static block,static method & static variable respectively
- Q8. Write a program to reverse a string and remove character from index 4 to index 9 from the reversed string using String Buffer
- Q9.Write a program to display values of enums using a constructor & getPrice() method (Example display house & their prices)
- Q10. Write a single program for following operation using overloading
- A) Adding 2 integer number
- B) Adding 2 double
- C) multiplying 2 float
- D) multiplying 2 int
- E) concate 2 string
- F) Concate 3 String
- Q11.Create 3 sub class of bank SBI,BOI,ICICI all 4 should have method called getDetails which provide there specific details like rateofinterest etc,print details of every banks.

```
//common Array
package com.company;
public class CommonArray {
    public static void getCommonArray(int[] array1,int[] array2){
         for(int i=0;i<array1.length;i++) {</pre>
              for (int j = 0; j < array2.length; <math>j++) {
                   if (array1[i] == array2[i]) {
                       System.out.println(array1[i]);
                   }
              }
         }
         public static void main(String[] arg){
              int[] arr1 = {4,7,3,6,2};
              int[] arr2 = {3,2,12,9,5,44,5};
              getCommonArray(arr1,arr2);
    }
}
```

}

```
package com.company;
public class DuplicateOccurance {
    public static void main(String[] args)
             String input="hello its me hello me";
                                                       //Input String
             String[] words=input.split(" "); //Split the word from String
             int wrc=1;
                                           //Variable for getting Repeated word count
             for(int i=0;i<words.length;i++)</pre>
                                                  //Outer loop for Comparison
                  for(int j=i+1;j<words.length;j++) //Inner loop for Comparison</pre>
                      if(words[i].equals(words[j])) //Checking for both strings are
equal
                      {
                                               //if equal increment the count
                           wrc=wrc+1;
                           words[j]="0";
                                                //Replace repeated words by zero
                      }
                  if(words[i]!="0")
                      if(wrc>1) {
                           System.out.println(words[i] + "--" + wrc); //Printing the
word along with count
                           wrc = 1;
                      }
             }
         }
    }
//Enum
package com.company;
enum house{
    H 1BHK(900), H 2BHK(2), H 3BHK(50), H 4BHK(15), H 5BHK(12);
   private int price;
    house(int p) {
         price = p;
    int getPrice() {
         return price;
public class Enum {
    public static void main(String args[]){
         System.out.println("All house prices:");
         for (house h : house.values()) System.out.println(
                  h + " costs " + h.getPrice() + " thousand dollars.");
    }
```

```
//method over loading
```

public void name(){

```
package com.company;
public class MethodOverloading {
    public static int add(int a,int b){
         return a+b;
    public static double add(double a,double b){
         return a+b;
    public static float multiply(float a, float b){
         return a*b;
    public static int multiply(int a,int b){
         return a*b;
    public static String concat(String str1,String str2){
         return str1+str2;
    public static String concat(String str1,String str2,String str3){
         return str1+str2+str3;
    public static void main(String [] adr){
         System. out. println(add(10,20));
         System. out. println(add(10.4,30.45));
         System.out.println(multiply(10f,20f));
         System.out.println(multiply(10,20));
         System.out.println(concat("aditya", "kumar"));
         System.out.println(concat("Mr", "aditya", "kumar"));
    }
}
//Bank
package com.company;
interface Bank{
    public void rateOfInterest();
    public void name();
    public void ifscCode();
    public void loanLimit();
 class SBI implements Bank{
    public void name(){
         System.out.println("Name = SBI Bank");
    }
    public void ifscCode(){
         System.out.println("IFSC:SBI00056");
    public void rateOfInterest(){
         System.out.println("rate of interest= 10% per annum");
    public void loanLimit(){
         System.out.println("Loan limit 10cr.");
class ICICI implements Bank{
```

```
System.out.println("Name = ICICI Bank");
    }
    public void ifscCode(){
         System.out.println("IFSC:ICICI00056");
    public void rateOfInterest(){
         System.out.println("rate of interest= 11% per annum");
    }
    public void loanLimit(){
         System.out.println("Loan limit 40cr.");
class BOI implements Bank{
    public void name(){
         System.out.println("Name = BOI Bank");
    public void ifscCode(){
         System.out.println("IFSC:B0I00056");
    public void rateOfInterest(){
         System.out.println("rate of interest= 9% per annum");
    }
    public void loanLimit(){
         System.out.println("Loan limit 20cr.");
public class OBank {
    public static void main(String[] ad) {
         Bank sbi = new SBI();
         sbi.name();
         sbi.ifscCode();
         sbi.rateOfInterest();
         sbi.loanLimit();
         //ICICI Bank
         Bank icici = new ICICI();
         icici.name();
         icici.ifscCode();
         icici.rateOfInterest();
         icici.loanLimit();
        //BOI Bank
         Bank boi = new SBI();
         boi.name();
         boi.ifscCode();
         boi.rateOfInterest();
         boi.loanLimit();
}
}
//count with percentage
package com.company;
public class Occurance
    static void characterPercentage(String inputString)
         //Getting total no of characters in the given string
         int totalChars = inputString.length();
         //Initializing upperCaseLetters, lowerCaseLetters, digits and others with 	heta
         int upperCaseLetters = 0;
         int lowerCaseLetters = 0;
         int digits = 0;
```

```
int special= 0:
         //Iterating through each character of inputString
         for (int i = 0; i < inputString.length(); i++)</pre>
         {
             char ch = inputString.charAt(i);
             //If ch is in uppercase, then incrementing upperCaseLetters
             if(ch>='A'&&ch<='Z')
             {
                  upperCaseLetters++;
             }
             //If ch is in lowercase, then incrementing lowerCaseLetters
             else if(ch>='a'&&ch<='z')</pre>
                  lowerCaseLetters++;
             }
             //If ch is a digit, then incrementing digits
             else if (ch>=48 && ch<=57)
             {
                 digits++;
             }
             //If ch is a special character then incrementing others
             else
             {
                  special++;
         }
         //Calculating percentage of uppercase letters, lowercase letters, digits and
other characters
         double upperCaseLetterPercentage = (upperCaseLetters * 100.0) / totalChars ;
         double lowerCaseLetterPercentage = (lowerCaseLetters * 100.0) / totalChars;
         double digitsPercentage = (digits * 100.0) / totalChars;
         double otherCharPercentage = (special * 100.0) / totalChars;
         //Printing percentage of uppercase letters, lowercase letters, digits and other
characters
         System.out.println("In '"+inputString+"' : ");
         System.out.println("Uppercase letters are "+upperCaseLetters+"and
%="+upperCaseLetterPercentage+"%");
         System.out.println("Lowercase letters are "+lowerCaseLetters+"and
%="+lowerCaseLetterPercentage+"%");
         System.out.println("Digits Are "+digits+"and %="+digitsPercentage);
         System. out. println("Other Characters Are "+special+" and
%="+otherCharPercentage+"%");
         System.out.println("----"):
    }
    public static void main(String[] args)
         characterPercentage("My email id is aditya.kumarl@tothenew.com");
    }
}
// occurance without loop
package com.companv:
public class OccuranceWithoutLoop {
         public static void main(String[] args) {
             String str = "This is an Example Of The Character";
             System.out.println("Length Of String:" + str.length());
             System.out.println("Length Of String Without a:" + str.replace("a",
"").length());
             int charcount = str.length() - str.replaceAll("a", "").length();
```

```
System.out.println("Occurrence Of A Char In String: " + charcount);
         }
    }
// Remove Reverse String
package com.company;
public class Remove Reverse String {
    public static void remove_String(String str){
         int len=str.length();
         char[] ch=new char[len];
         int j=0;
         for(int i=len-1;i>=0;i--){
         ch[j]=str.charAt(i);
         j++;
         String str1=new String(ch);
         System.out.println(str1);
         StringBuffer sb=new StringBuffer(str1);
         sb.delete(4,9);
         System.out.println(sb);
public static void main(String[] ag){
         remove_String("adityafdfdf");
}
// static operation
package com.company;
public class StaticOperation {
    static String firstName="aditya";
    static String lastName="kumar";
    static int age=10;
  static{
         System.out.println(firstName);
         System.out.println(lastName);
         System.out.println(age);
    public static void show(){
         System.out.println(firstName);
         System.out.println(lastName);
         System.out.println(age);
public static void main(String[] ag){
         show();
// String Replace Substring
package com.company;
class StringReplaceSubstring {
    public static void stringReplaceSubString(String substr1,String substr2){
         String str="aditya";
         char[] ch=str.toCharArray();
         int j=0;
         for(int i=0;i<str.length();i++){</pre>
             System.out.println(ch[i]);
```

```
if(ch[i]==substr1.charAt(j)){
                  ch[i]=substr2.charAt(i);
                  j++;
             }
         String newString=new String(ch);
    }
}
    public class StringReplace {
         public static void main(String[] af) {
             String str = "Hello World";
             System.out.println(str.replace('H', 'W'));
             System.out.println(str.replaceFirst("He", "Wa"));
             System.out.println(str.replaceAll("He", "Ha"));
              StringReplaceSubstring.stringReplaceSubString("adi","raj");
         }
    }
// twice exception one
package com.company;
class TwiceExceptionOne
    static int findSingle(int ar[], int ar_size)
         // Do XOR of all elements and return
         int res = ar[0];
         for (int i = 1; i < ar size; i++)</pre>
             res = res ^ ar[i];
         return res;
    }
    public static void main (String[] args)
         int ar[] = {2, 3, 5, 4, 5, 3, 4};
         int n = ar.length;
         System. out. println("Element occurring once is " +
                  findSingle(ar, n) + " ");
    }
}
```