IS2104 - Rapid Application Development

2020 Practical - 4

Question A

```
public class WordCount
[{public static void main(String[] args)
{ String text = "UCSC offers Computer Science and Software Engineering education under the Bachelor of Computer Science and Information Systems under Bachelor of Information Sy
       String text1=text.replaceAll(",","");
       String[] keys = text1.split(" ");
       String[] uniqueKeys;
       int count = 0;
       System.out.println(text1);
       uniqueKeys = getUniqueKeys(keys);
       for(String key: uniqueKeys)
        {if(null == key)
            {break;
            for(String s : keys)
               if(key.equals(s))
                   count++;
            System.out.println("Count of ["+key+"] is : "+count);
           count=0;
 private static String[] getUniqueKeys(String[] keys)
  { String[] uniqueKeys = new String[keys.length];
        uniqueKeys[0] = keys[0];
        int uniqueKeyIndex = 1;
        boolean keyAlreadyExists = false;
          for(int i=1; i<keys.length ; i++)</pre>
          {for(int j=0; j<=uniqueKeyIndex; j++)</pre>
               if(keys[i].equals(uniqueKeys[j])){
                keyAlreadyExists = true;
           } if(!keyAlreadyExists)
               uniqueKeys[uniqueKeyIndex] = keys[i];
               uniqueKeyIndex++;
            }keyAlreadyExists = false;
       return uniqueKeys;}
```

```
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Question B

```
Microsoft Windows [Version 10.0.17134.1069]
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C:\Users\Hansika>cd Desktop

C:\Users\Hansika\Desktop>javac StringReverse.java

C:\Users\Hansika\Desktop>java StringReverse
Enter string to reverse:
The allegory of the cave, or Plato's Cave, was presented by the Greek philosopher Plato in his work Republic to compare "the effect of education and the lack of it on our nature". It is written as a dialogue between Plato's brother Glaucon and his mentor Socrates, narrated by the sih ni otalP rehposolihp keerG eht yb detneserp saw ,evaC s'otalP ro ,evac eht fo yrogella ehT

C:\Users\Hansika\Desktop>latter
```

Question C

```
public class SumOfMatrices{
    public static void main(String[] args){
        int firstMatrix[][]={{1,2,3},{4,5,6},{7,8,9}};
        int secondMatrix[][]={{2,3,4},{5,6,7},{8,9,1}};
        int totalMatrix[][]=new int[3][3];
        int i;
        int j;
        for (i=0;i<3;i++) {</pre>
            for (j=0;j<3;j++) {</pre>
                 totalMatrix[i][j]=firstMatrix[i][j] +secondMatrix[i][j];
             }
        System.out.println("Sum of two matrices:");
        for (i=0;i<3;i++) {</pre>
            for (j=0;j<3;j++) {</pre>
            System.out.print(totalMatrix[i][j]+"");
            System.out.println();
```

Microsoft Windows [Version 10.0.17134.1069]
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C:\Users\Hansika>cd Desktop

C:\Users\Hansika\Desktop>javac SumOfMatrices.java

C:\Users\Hansika\Desktop>java SumOfMatrices
Sum of two matrices:
357
91113
151710

C:\Users\Hansika\Desktop>