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CSA 0976 Programming in Java
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Assignment 5
L.Code:
import java.applet.Applet;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.WindowAdapter;
import java.awt.event.WindowEvent;
public class EventHandlingApplet extends Applet implements ActionListener
{
     Button button;
     String message;
     public void init()
     button = new Button("Click me!");
     add(button);
     button.addActionListener(this);
     message = "";
     ì
     public void actionPerformed(ActionEvent event)
     if (event.getSource() == button)
           {
           message = "Hello, world!";
     }
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repaint();
      public void paint(Graphics g)
      g.drawString(message, 50, 50);
      }
      public static void main(String[] args)
      {
      EventHandlingApplet applet = new EventHandlingApplet();
      applet.init();
      Frame frame = new Frame("My Applet");
      frame.add(applet);
      frame.pack();
      frame.addWindowListener(new WindowAdapter()
            {
            public void windowClosing(WindowEvent event)
                  System.exit(0);
            }
      });
      frame.setVisible(true);
      ì
}
Output:
```

C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-5 Assignment>javac EventHandlingApplet.java Click me! $\verb|C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-5 Assignment>java EventHandlingApplet | Assignment\Bay-5 Assignment\$



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2.Code:
import java.io.*;
class FileIOExample
{
      public static void main(String args[])
   try
      FileOutputStream fos = new FileOutputStream("output.txt");
      String message = "WELCOME TO SSE";
      fos.write(message.getBytes());
      fos.close();
      FileInputStream fis = new FileInputStream("output.txt");
      byte[] bytes = new byte[fis.available()];
      fis.read(bytes);
      fis.close();
      String readMessage = new String(bytes);
      System.out.println(readl*lessage);
   }
      catch (IOException e)
      {
     System.out.println("Error: " + e.get|"lessage());
```

Output:

C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-5 Assignment>javac fileop.java C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-5 Assignment>java FileIOExample WELCOME TO SSE

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3.Code:
import java.util.Scanner;
class captialuse
{
      public static void main(String[] args)
      {
      Scanner scan = new Scanner(System.in);
      System.out.print("Enter a word: ");
      String word = scan.nextLine();
      boolean isRightUsage = true;
      boolean allCaps = true;
      boolean noCaps = true;
      for (int i = 0; i < word.length(); i++)
            {
            char c = word.charAt(i);
            if (Character.isLowerCase(c))
                  {
                  allCaps = false;
            }
                  else
                  {
                  noCaps = false;
            }
            if (!allCaps & & !noCaps)
                  {
                  isRightUsage = false;
                  break;
            }
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      }
```

```
if (isRightUsage || allCaps || noCaps)
             System.out.println("The usage of capitals in \"" + word + "\" is
correct."):
      ì
             else
             System.out.println("The usage of capitals in \"" + word + "\" is
incorrect."):
      }
      }
}
Output:
C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-5 Assignment>javac captialuse.java
C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-5 Assignment>java captialuse
Enter a word: USA
The usage of capitals in "USA" is correct.
C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-5 Assignment>java captialuse
Enter a word: Good
 The usage of capitals in "Good" is incorrect.
4.Code:
import java.util.Arrays;
class upperch
{
      public static char nextGreatestLetter(char[] letters, char target)
      {
      int n = letters.length;
      int left = (), right = n - 1;
      while (left <= right)
             int mid = left + (right - left) / 2;
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if (letters[mid] <= target)</pre>
                    left = mid + I;
             }
                    else
                    right = mid - 1;
             }
       ì
      return left >= n ? letters[0] : letters[left];
       ļ
      public static void main(String[] args)
       {
      char[] letters = {'c', 'f', 'j'};
       char target = 'a';
      char result = nextGreatestLetter(letters, target);
      System.out.println("Input: letters = " + Arrays.toString(letters) + ", target
= " + target);
      System.out.println("Output: " + result);
  }
ì
Output:
C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-5 Assignment>javac upperch.java
C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-5 Assignment>java upperch
Input: letters = [c, f, j], target = a
Output: c
5.Code:
import java.util.Scanner;
public class Menusel
{
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```

```
public static void main(String[] args)
      Scanner scan = new Scanner(System.in);
      char choice:
      do
            {
             System.out.println("Help on: ");
            System.out.println(" I. if");
             System.out.println("2. switch");
            System.out.println("3. while");
             System.out.println("4. do-while");
             System.out.println("5. for\n");
            System.out.print("Choose any one: ");
            choice = scan.next().charAt(0);
      } while(choice < 'I' || choice > '5');
      System.out.println("\n");
      switch (choice)
            case 'I':
                   System.out.println("The if:\n");
                   System.out.println("if(condition)\n{\n\tstatement\n}");
                   System.out.println("else\n{\n\tstatement\n}");
                   break;
            case '2':
                   System.out.println("The switch:\n");
                   System.out.println("switch(expression)\n{");
                   System.out.println("\tcase constant: statement
sequence\n\tbreak;");
                   System.out.println("\t//...\n}");
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```
break;
             case '3':
                   System.out.println("The while:\n");
                   System.out.println("while(condition)\n{");
                   System.cut.println("\t// body of loop\n}");
                   break;
             case '4':
                   System.out.println("The do-while:\n");
                   System.out.println("do\n{");
                   System.out.println("\t// body of loop\n\n}while(condition);");
                   break;
             case '5':
                   System.out.println("The for :\n");
                   System.out.println("for(initialization; condition; iteration)\n{");
                   System.out.println("\t// body of loop\n}");
                   break;
             default:
                   System.out.println("Invalid choice!");
     }
  }
}
```

Output:

```
C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-5 Assignment>javac Menusel.java
C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-5 Assignment>java Menusel
Help on :
1. if
2. switch
3. while
4. do-while
5. for
Choose any one : 1

The if :
if(condition)
{
    statement
}
else
{
    statement
}
```