# CSA 0976 Programming in Java for android applications.

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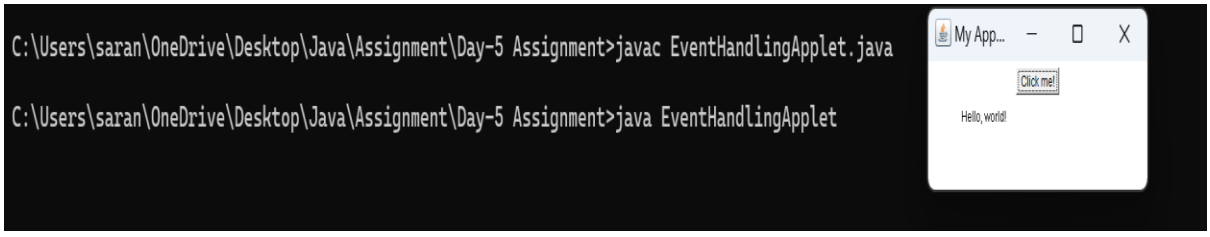
## Assignment 5

1.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 = "";
	}
	public void actionPerformed(ActionEvent event)
	{
	if (event.getSource() == button)
		{
		message = "Hello, world!";
	}
```

```
        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);
        }
}
```

# Output:



## 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(readMessage);
     }
        catch (IOException e)
        {
       System.out.println("Error: " + e.getMessage());
     }
   }
}
```

## 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
```

## 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;
		}
	}
```

```
        if (isRightUsage || allCaps || noCaps)
                {
                System.out.println("The usage of capitals in \"" + word + "\" is correct.");
        }
                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 = 0, right = n - 1;
        while (left <= right)
                {
                int mid = left + (right - left) / 2;
                if (letters[mid] <= target)
```

```
                {
                left = mid + 1;
            }
                else
                {
                right = mid - 1;
            }
        }
        return left >= n ? letters[0] : letters[left];
        }
        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);
    }
}
```

## 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
{
        public static void main(String[] args)
```

```
{
Scanner scan = new Scanner(System.in);
char choice;
do
	{
	System.out.println("Help on : ");
	System.out.println("1. 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 < '1' || choice > '5');
System.out.println("\n");
switch (choice)
	{
	case '1':
		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}");
		break;
```

```
                case '3':
                        System.out.println("The while :\n");
                        System.out.println("while(condition)\n{");
                        System.out.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
}
```