OOPS PRACTICAL 10

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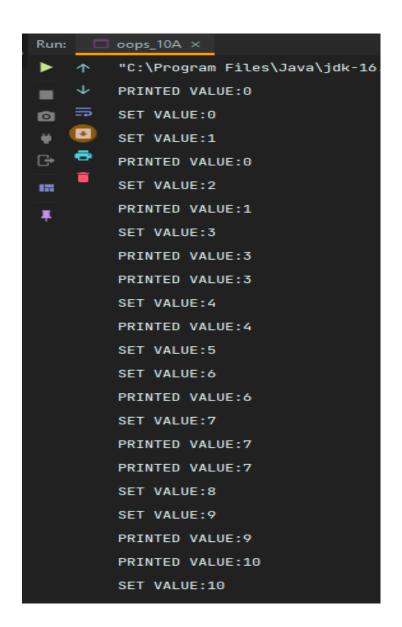
Course Code: 2CS302

Course Name: Object Oriented Programming

Practical 10A

```
package thread;
        System.out.println("PRINTED VALUE:" +n);
        System.out.println("SET VALUE:"+n);
    Counter (Storage c) {
        this.s=c;
                System.out.println(e);
   Storage s;
    Printer(Storage p) {
       this.s=p;
            }catch(InterruptedException e){
                System.out.println(e);
public class oops_10A {
        Storage s=new Storage();
```

```
Counter c= new Counter(s);
    Printer p=new Printer(s);
}
```

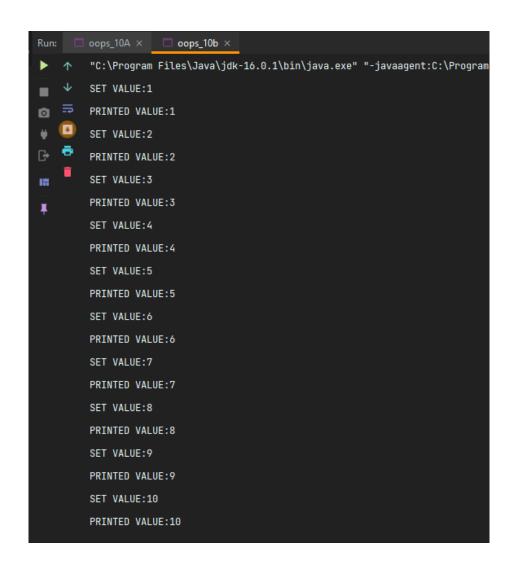


THEORETICAL PRINCIPLES USED:

Practical 10B

```
package thread;
            }catch(InterruptedException e) {
                 System.out.println(e);
        System.out.println("PRINTED VALUE:" +n);
        vs=true;
            }catch(InterruptedException e){
                 System.out.println(e);
        System.out.println("SET VALUE:"+n);
        vs=false;
            }catch(InterruptedException e) {
                 System.out.println(e);
        this.s=p;
        for(int i=0;i<10;i++) {
            }catch(InterruptedException e) {
    System.out.println(e);
```

```
}
public class oops_10b {
    public static void main(String[] args) {
        Storage1 s=new Storage1();
        Counter1 c= new Counter1(s);
        Printer1 p=new Printer1(s);
    }
}
```



THEORETICAL PRINCIPLES USED:

Practical 10C

```
package thread;
            File f = new File("./file1.txt");
            boolean flag = true;
                if (str.equals(sc.next())) {
                    System.out.println("Word \"" + str + "\" is there in the
                    flag = false;
            if (flag) {
                System.out.println("Word \"" + str + "\" is not present in the
file");
        }catch (Exception e) {
           System.out.println("File not found");
public class oops_10c {
        }catch(ArrayIndexOutOfBoundsException a) {
           System.out.println(a);
```

OUTPUT

```
C:\Users\Hp\IdeaProjects\FirstjavaPrg\src>javac thread/oops_10c.java

C:\Users\Hp\IdeaProjects\FirstjavaPrg\src>java thread/oops_10c hello Nirma student Aryan

Word "Nirma" is there in the file

Word "hello" is there in the file

Word "student" is not present in the file

Word "Aryan" is not present in the file
```

THEORETICAL PRINCIPLES USED:

After performing this practical we will be able to use concepts of multithreading and file to perform the given task.

Practical 10D

```
C:\Users\Hp\IdeaProjects\FirstjavaPrg\src>javac thread/oops_10d.java

C:\Users\Hp\IdeaProjects\FirstjavaPrg\src>java thread/oops_10d file1.txt file2.txt
file2.txt: cmd
file2.txt: intelij
file2.txt: ide
file2.txt: java
file1.txt: hello
file1.txt: Nirma
file1.txt: University
```

THEORETICAL PRINCIPLES USED:

After performing this practical we will be able to use concepts of multithreading and file to perform the given task.

Practical 10E

```
C:\Users\Hp\IdeaProjects\FirstjavaPrg\src>javac thread/oops_10e.java

C:\Users\Hp\IdeaProjects\FirstjavaPrg\src>java thread/oops_10e file1.txt

Hello

Priority-7: hello

Priority-3: hello

Priority-7: Nirma

Priority-3: Nirma

Priority-7: University

Priority-3: University
```

THEORETICAL PRINCIPLES USED:

Practical 10F

```
package thread;
import java.io.FileWriter;
public class oops_10f {
    public static void main(String[] args) {
            Scanner sc2 = new Scanner(System.in);
             int roll, age;
             String name, address;
             String scan[] = new String[4];
             System.out.println("Enter your ROLL NUMBER, NAME, AGE, ADDRESS");
                 String temp = sc2.nextLine();
                 scan = temp.split(" ");
                 if (scan.length < 3) {</pre>
                     throw new InsufficientElements(temp);
                 roll = Integer.parseInt(scan[0]);
                 age = Integer.parseInt(scan[2]);
                 address = scan[3];
                 System.out.println("Do you want to save the data to file?(y/n)");
                 char check1 = sc2.next().charAt(0);
                 if (check1 == 'y') {
                     FileWriter fw = new FileWriter("data.txt", true);
fw.write(scan[0] + " " + scan[1] + " " + scan[2] + " " +
scan[3] + "\n");
                 System.out.println("Please enter only integers for age and Roll
                 System.out.println(e);
                 System.out.println("Exception occurred while writing in file");
                 System.out.println("Do you want to enter a new entry? (y/n)");
                 char check2 = sc2.next().charAt(0);
                     System.out.println("Thank you");
class InsufficientElements extends Exception {
        this.str = str;
        return "Less Data is Entered";
```

C:\Users\Hp\IdeaProjects\FirstjavaPrg\src>java thread/oops_10f
Enter your ROLL NUMBER, NAME, AGE, ADDRESS
20 Aryan 19 Mumbai
Do you want to save the data to file?(y/n)
у
Do you want to enter a new entry?(y/n)
у
Enter your ROLL NUMBER, NAME, AGE, ADDRESS
23
Less Data is Entered
Do you want to enter a new entry?(y/n)
у
Enter your ROLL NUMBER, NAME, AGE, ADDRESS
23 Khushi 10 Delhi
Do you want to save the data to file?(y/n)
у
Do you want to enter a new entry?(y/n)
n
Thank you

C:\Users\Hp\I	deaProjects∖Fi	rstjavaPrg\sr	c>javac thread/display_data.java	
C:\Users\Hp\IdeaProjects\FirstjavaPrg\src>java thread/display_data				
Roll	Name	Age	Address	
20	Aryan	19	Mumbai	
23	Khushi	10	Delhi	
	<u> </u>		•	

THEORETICAL PRINCIPLES USED: