

OOP Lab Program 4

5) a) **Design, Develop and Implement a Java program that creates three threads. First thread displays “Good Morning “every one second, the second thread displays “Hello” every two seconds and the third thread displays “Welcome” every three seconds.**

```
public class One extends Thread {

    public void run()
    {
        try
        {
            int i=0;
            while (i<5)
            {
                sleep(1000);
                System.out.println("Good morning");
                i++;
            }
        }

        catch(InterruptedException e)
        {
            System.out.println("Interrupted");
        }
    }
}
```

```
public class Two extends Thread {

    public void run()
    {
        try
        {
            int i=0;
            while (i<5)
            {
                sleep(2000);
                System.out.println("Hello");
                i++;
            }
        }
    }
}
```

```

        catch(InterruptedException e)
        {
            System.out.println("Interrupted");
        }
    }
}

public class Three extends Thread {

    public void run()
    {
        try
        {
            int i=0;
            while (i<5)
            {
                sleep(3000);
                System.out.println("Welcome");
                i++;
            }
        }

        catch(InterruptedException e)
        {
            System.out.println("Interrupted");
        }
    }
}

}

public class MyThread {

    public static void main(String[] args) {

        One t1=new One();
        Two t2=new Two();
        Three t3=new Three();

        t1.start();
        t2.start();
        t3.start();

    }

}

```

5) b) Design, Develop and Implement a Java program to read from console and write these data into file, again read that file and print the content onto console.

```
public class IO
{
    public static void main(String args[]) throws IOException, FileNotFoundException
    {
        char c;
        int i;
        FileInputStream fin = new FileInputStream("Test1.txt");
        FileOutputStream fout = new FileOutputStream("Test1.txt");
        BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
        System.out.println("Enter characters, 'q' to quit.");
        do{
            c = (char) br.read();
            if(c != 'q') fout.write(c);
        } while(c != 'q');
        System.out.println("Contents of the file are");
        do{
            i = fin.read();
            if(i != -1) System.out.print((char) i);
        } while(i != -1);

        fin.close();
        fout.close();
    }
}
```