

Chapter 12 Practice Set Questions by Munawar

Questions

1. Write a program to print “good Morning” and “Welcome” continuously on the screen in java using threads.

Solution

```
// Question 1
class goodMorning extends Thread{
    public void run(){
        int i=0;
        while (i<10) {
            System.out.println("Good Morning ");
            i++;
        }
    }
}

class welcome extends Thread{

    public void run() {
        int j = 0;
        while (j < 10) {
            System.out.println("Well come to my code. ");
            j++;
        }
    }
}
```

```
// Question 1
goodMorning goodt=new goodMorning();
welcome wellt=new welcome();
goodt.start();
wellt.start();
```

2. Add a sleep method in welcome thread of question1 to delay its execution for 200s.

Solution

```
// Question 2
class goodMorning extends Thread{
    public void run(){
```

```

        int i=0;
        while (i<10) {
            System.out.println("Good Morning ");
            i++;
        }
    }
}

class welcome extends Thread{

    public void run() {
        int j = 0;
        while (j < 10) {
            try {
                Thread.sleep(200);
            }
            catch (Exception e) {
                System.out.println(e);
            }
            System.out.println("Well come to my code. ");
            j++;
        }
    }
}

```

```

// Question 2
goodMorning goodt=new goodMorning();
welcome wellt=new welcome();
goodt.start();
wellt.start();

```

3. Demonstrate get priority () and set priority () methods in java threads.

Solution

```

// Question 3
class goodMorning extends Thread{
    public void run(){
        int i=0;
        while (i<10) {
            System.out.println("Good Morning ");
            i++;
        }
    }
}

class welcome extends Thread{

    public void run() {
        int j = 0;

```

```

        while (j < 10) {
            try {
                Thread.sleep(200);
            }
            catch (Exception e) {
                System.out.println(e);
            }
            System.out.println("Well come to my code. ");
            j++;
        }
    }
}

```

```

// Question 3S
goodMorning goodt=new goodMorning();
welcome wellt=new welcome();
goodt.setPriority(5); // normal priority
wellt.setPriority(10); //max priority
System.out.println(goodt.getPriority());
System.out.println(wellt.getPriority());
goodt.start();
wellt.start();

```

4. How do you get state of a given thread in java?

Solution

```

// Question 4
class goodMorning extends Thread{
    public void run() {
        int i=0;
        while (i<10) {
            System.out.println("Good Morning ");
            i++;
        }
    }
}

class welcome extends Thread{

    public void run() {
        int j = 0;
        while (j < 10) {
            try {
                Thread.sleep(200);
            }
            catch (Exception e) {
                System.out.println(e);
            }
            System.out.println("Well come to my code. ");
        }
    }
}

```

```

        j++;
    }
}

```

```

// Question 4
goodMorning goodt=new goodMorning();
welcome wellt=new welcome();
goodt.setPriority(5); // normal priority
wellt.setPriority(10); //max priority
System.out.println(goodt.getPriority());
System.out.println(wellt.getPriority());
goodt.start();
wellt.start();
System.out.println("Wel come state is :"+wellt.getState());
System.out.println(" Good morning state is :"+goodt.getState());

```

5. How do you get reference to the current thread in java?

Solution

```

// Question 5
class goodMorning extends Thread{
    public void run(){
        int i=0;
        while (i<10) {
            System.out.println("Good Morning ");
            i++;
        }
    }
}

class welcome extends Thread{

    public void run() {
        int j = 0;
        while (j < 10) {
            try {
                Thread.sleep(200);
            }
            catch (Exception e) {
                System.out.println(e);
            }
            System.out.println("Well come to my code. ");
            j++;
        }
    }
}

```

```
// Question 5
goodMorning goodt=new goodMorning();
welcome wellt=new welcome();
goodt.setPriority(5); // normal priority
wellt.setPriority(10); //max priority
System.out.println(goodt.getPriority());
System.out.println(wellt.getPriority());
goodt.start();
wellt.start();
System.out.println("Wel come state is :"+wellt.getState());
System.out.println(" Good morning state is :"+goodt.getState());
System.out.println(Thread.currentThread().getState());
```

Source code:

```
import javax.swing.plaf.synth.SynthTextAreaUI;
import java.util.Scanner;
import java.util.Random;

// Question 1
class goodMorning extends Thread{
    public void run(){
        int i=0;
        while (i<10) {
            System.out.println("Good Morning ");
            i++;
        }
    }
}

class welcome extends Thread{

    public void run() {
        int j = 0;
        while (j < 10) {
            try {
                Thread.sleep(200);
            }
            catch (Exception e) {
                System.out.println(e);
            }
            System.out.println("Well come to my code. ");
            j++;
        }
    }
}

public class Main {
    public static void main (String [] args) {

        // Question
```

```
goodMorning goodt=new goodMorning();
welcome wellt=new welcome();
goodt.setPriority(5); // normal priority
wellt.setPriority(10); //max priority
System.out.println(goodt.getPriority());
System.out.println(wellt.getPriority());
goodt.start();
wellt.start();
System.out.println("Wel come state is :"+wellt.getState());
System.out.println(" Good morning state is :"+goodt.getState());
System.out.println(Thread.currentThread().getState());

}

}
```

Thank You