

Topic-Thread Creation

Assignment-1

1) Create two threads and assign names 'Scooby' and 'Shaggy' to the two threads. Display both thread names.

Ans

```
public class ThreadNamesDemo {  
    public static void main(String[] args) {  
        // Creating first thread and setting name  
        Thread thread1 = new Thread();  
        thread1.setName("Scooby");  
  
        // Creating second thread and setting name  
        Thread thread2 = new Thread();  
        thread2.setName("Shaggy");  
  
        // Starting both threads  
        thread1.start();  
        thread2.start();  
  
        // Displaying thread names  
        System.out.println("First thread name: " + thread1.getName());  
        System.out.println("Second thread name: " + thread2.getName());  
    }  
}
```

Ouptut

First thread name: Scooby

Second thread name: Shaggy

Assignment-2

2)Store colours in the form of an array

ex: String colours[]={**"white","blue","black","green","red","yellow"**};

display all colours repeatedly by generating colour index from Random class. If the random colour index matches to red stop display.

```
import java.util.Random;
```

```
class ColorDisplay implements Runnable {
```

```
    private String[] colours = {"white", "blue", "black", "green", "red", "yellow"};
```

```
    private Random random = new Random();
```

```
    @Override
```

```
    public void run() {
```

```
        while (true) {
```

```
            try {
```

```
                // Generate random index
```

```
                int randomIndex = random.nextInt(colours.length);
```

```
                String selectedColor = colours[randomIndex];
```

```
                System.out.println("Thread: " + Thread.currentThread().getName() +
```

```
                    " - Color: " + selectedColor);
```

```
                // Check if we need to stop (when red is selected)
```

```
                if (selectedColor.equals("red")) {
```

```
                    System.out.println("Red color found! Stopping display.");
```

```
                    break;
```

```
                }
```

```
                // Sleep for 500ms before next color
```

```
        Thread.sleep(500);

    } catch (InterruptedException e) {
        System.out.println("Thread interrupted");
        break;
    }
}
}
```

```
public class ColorDisplayMain {
    public static void main(String[] args) {
        ColorDisplay colorTask = new ColorDisplay();
        Thread colorThread = new Thread(colorTask);
        colorThread.setName("ColorDisplayThread");
        colorThread.start();
    }
}
```

Output

```
Thread: ColorDisplayThread - Color: blue
Thread: ColorDisplayThread - Color: green
Thread: ColorDisplayThread - Color: yellow
Thread: ColorDisplayThread - Color: black
Thread: ColorDisplayThread - Color: red
Red color found! Stopping display.
```