

1. Create a thread t1 to display message “Hello World”.

Code:

```
1  class Multi extends Thread {
2      public void run() {
3          System.out.println("thread is running...");
4          System.out.println("Hello World");
5      }
6
7      public static void main(String args[]) {
8          Multi t1 = new Multi();
9          t1.start();
10     }
11 }
```

Output:

```
PS C:\Users\Ajay kumar\SEIT-B\PCPF\Lab\Exp_9&10\Q1> javac multi.java
```

```
PS C:\Users\Ajay kumar\SEIT-B\PCPF\Lab\Exp_9&10\Q1> java Multi
```

```
thread is running...
```

```
Hello World
```

```
PS C:\Users\Ajay kumar\SEIT-B\PCPF\Lab\Exp_9&10\Q1>
```

2. Create two threads t1 and t2 to display message “Welcome to SFIT” and “Welcome to IT”.

Code:

```
1  class Welcome extends Thread {
2      private String msg;
3
4      Welcome(String msg) {
5          this.msg = msg;
6      }
7
8      public void run() {
9          System.out.println(msg);
10     }
11 }
12 class Main {
13     public static void main(String[] args) {
14         Welcome t1 = new Welcome("Welcome to SFIT");
15         Welcome t2 = new Welcome("Welcome to IT");
16
17         t1.start();
18         t2.start();
19     }
20 }
21
```

Output:

```
PS C:\Users\Ajay kumar\SEIT-B\PCPF\Lab\Exp_9&10\Q2> javac Main.java
```

```
PS C:\Users\Ajay kumar\SEIT-B\PCPF\Lab\Exp_9&10\Q2> java Main
```

```
Welcome to SFIT
```

```
Welcome to IT
```

```
PS C:\Users\Ajay kumar\SEIT-B\PCPF\Lab\Exp_9&10\Q2> java Main
```

```
Welcome to IT
```

```
Welcome to SFIT
```

```
PS C:\Users\Ajay kumar\SEIT-B\PCPF\Lab\Exp_9&10\Q2>
```

3. Create a thread t1 by implementing runnable interface to display “Hello world” message.

Code:

```
1  class Msg implements Runnable {
2      public void run() {
3          System.out.println("Hello World");
4      }
5  }
6
7  class Main {
8      public static void main(String[] args) {
9          Msg msg = new Msg();
10         Thread t1 = new Thread(msg);
11         t1.start();
12     }
13 }
```

Output:

PS C:\Users\Ajay kumar\SEIT-B\PCPF\Lab\Exp_9&10\Q3> javac Main.java

PS C:\Users\Ajay kumar\SEIT-B\PCPF\Lab\Exp_9&10\Q3> java Main

Hello World

PS C:\Users\Ajay kumar\SEIT-B\PCPF\Lab\Exp_9&10\Q3>

4. WAP to display n-thread ids

Code:

```
1  class Multi extends Thread {
2      public void run() {
3          System.out.print("Thread id: ");
4          System.out.println(Thread.currentThread().getId());
5      }
6  }
7
8  class Main {
9      public static void main(String[] args) {
10         Multi t1 = new Multi();
11         Multi t2 = new Multi();
12         Multi t3 = new Multi();
13         Multi t4 = new Multi();
14         Multi t5 = new Multi();
15
16         t1.start();
17         t2.start();
18         t3.start();
19         t4.start();
20         t5.start();
21
22     }
23 }
```

Output:

PS C:\Users\Ajay kumar\SEIT-B\PCPF\Lab\Exp_9&10\Q4> javac Main.java

PS C:\Users\Ajay kumar\ SEIT-B\PCPF\Lab\Exp_9&10\Q4> java Main

Thread id: Thread id: 19

Thread id: Thread id: 17

Thread id: 18

15

16

PS C:\Users\Ajay kumar\SEIT-B\PCPF\Lab\Exp_9&10\Q4>