

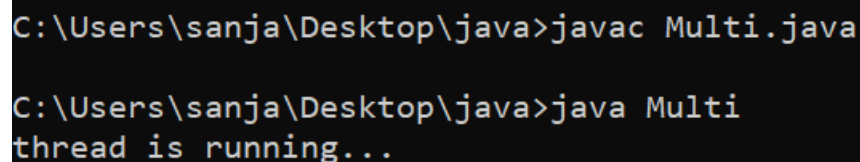
Practical no. 8:

Q.1 Write a java program to create Threads :

Source Code:

```
class Multi extends Thread{  
    public void run(){  
        System.out.println("thread is running...");  
    }  
    public static void main(String args[]){  
        Multi t1=new Multi();  
        t1.start();  
    }  
}
```

Output:



```
C:\Users\sanja\Desktop\java>javac Multi.java  
  
C:\Users\sanja\Desktop\java>java Multi  
thread is running...
```

Q.2 Write a java Program to open a file and display the Content in console window.

Source Code :

```
import java.io.BufferedReader;  
import java.io.FileReader;  
import java.io.IOException;
```

```
public class ReadFileAndDisplayContent {  
    public static void main(String[] args) {  
        String fileName = "yourFileName.txt";  
        try {  
            FileReader fileReader = new FileReader(fileName);  
            BufferedReader bufferedReader = new  
BufferedReader(fileReader);  
            String line;  
            while ((line = bufferedReader.readLine()) != null) {  
                System.out.println(line);  
            }  
            bufferedReader.close();  
        } catch (IOException e) {  
            System.err.println("Error reading the file: " +  
e.getMessage());  
        }  
    }  
}
```

Output:

```
C:\Users\sanja\Desktop\java>javac ReadFileAndDisplayContent.java  
C:\Users\sanja\Desktop\java>java ReadFileAndDisplayContent  
Error reading the file: yourFileName.txt (The system cannot find the file specified)
```

Q.3 Write a java program to write the data into a file:

Source Code :

```
import java.io.BufferedWriter;
import java.io.FileWriter;
import java.io.IOException;

public class DataFile {
    public static void main(String[] args) {
        String fileName = "output.txt";
        try {
            FileWriter fileWriter = new FileWriter(fileName);
            BufferedWriter bufferedWriter = new
BufferedWriter(fileWriter);

            String data = "Hello, world!\nThis is a Java program to write
data to a file.";

            bufferedWriter.write(data);
            bufferedWriter.close();

            System.out.println("Data has been written to the file
successfully.");
        } catch (IOException e) {
            System.err.println("Error writing to the file: " +
e.getMessage());
        }
    }
}
```

Output:

```
C:\Users\sanja\Desktop\java>javac  DataFile.java

C:\Users\sanja\Desktop\java>java  DataFile
Data has been written to the file successfully.
```

Practical no.9:

Q. Write a java program for performing exception Handling (Arithmetic Exception)

Source Code :

```
public class HandleArithmeticException {

    void divide(int a, int b) {

        int res;

        try {

            // performing division and storing the result

            res = a / b;

            System.out.println("Division process has been done
successfully.");

            System.out.println("Result came after division is: " + res);

        } catch (ArithmeticException ex) {

            System.out.println("Should avoid dividing by 0 " + ex);

        }

    }

    public static void main(String[] args) {

        HandleArithmeticException obj = new
HandleArithmeticException();
```

```
        obj.divide(1, 0);  
    }  
}
```

Output:

```
C:\Users\sanja\Desktop\java>javac HandleArithmeticException.java  
  
C:\Users\sanja\Desktop\java>java HandleArithmeticException  
Should avoid dividing by 0 java.lang.ArithmeticException: / by zero
```

