

2.10 Throw and Throws

This section will guide you to:

- Implement **throw** and **throws** keywords

This guide has three subsections, namely:

2.10.1 Writing code for **throw** keyword

2.10.2 Writing code for **throws** keyword

2.10.3 Pushing the code to your GitHub repository

Step 2.10.1: Writing code for **throw** keyword

- Write the code given below in a Java file and run it as a Java application:

```
public class TestThrow1 {  
  
    static void validate(int age){  
        if(age<18)  
            throw new ArithmeticException("not valid");  
        else  
            System.out.println("welcome to vote");  
        }  
    public static void main(String args[]){  
        validate(13);  
        System.out.println("rest of the code...");  
    }  
}
```

Output:

```
Exception in thread "main" java.lang.ArithmeticException: not valid  
    at java1.TestThrow1.validate(TestThrow1.java:7)  
    at java1.TestThrow1.main(TestThrow1.java:12)
```

Step 2.10.2: Writing code for **throws** keyword

- Write the code given below in a Java file and run it as a Java application:

```
import java.io.IOException;
class Testthrows2{
void m()throws IOException{
throw new IOException("device error");//checked exception
}
void n() throws IOException{
m();
}
void p(){
try{
n();
}
catch(Exception e)
{
System.out.println("exception handled");
}
}
public static void main(String args[]){
Testthrows2 obj=new Testthrows2();
obj.p();
System.out.println("normal flow...");
}
}
```

Output:

```
exception handled
normal flow...
```

Step 2.10.3: Pushing the code to your GitHub repositories

Open your command prompt and navigate to the folder where you have created your files.

```
cd java_program
```

Initialize your repository using the following command:

```
git init
```

Add all the files to your git repository using the following command:

```
git add .
```

Commit the changes using the following command:

```
git commit . -m "Changes have been committed."
```

Push the files to the folder you initially created using the following command:

```
git push -u origin master
```