

Chapter 14 Exception Class in Java by Munawar

Exception class in java

We can write are custom exceptions using function class in java.

```
Public class My Exceptions extends Exception {  
  
// overridden methods  
  
}
```

The Exception class has following important methods:

1. String toString () ----- > executed where sout (e) is run
2. Void Print Stack Trace () ----- > print stack trace
3. String getMessage () ----- > prints the exception message

The throw keyword

The throw keyword is used to throw an exception explicitly by the programmer

```
If (a==0)  
{  
    Throw new Arithmetic Exception ("div by 0")  
}  
  
else {  
    return b/a;  
}
```

In a similar manner, we can throw user defined exceptions:

Throw new My Exceptions ("Exception Thrown ");

Source Code

```
import java.security.PublicKey;
import java.util.Scanner;

class MyException extends Exception{
    @Override
    public String toString(){
        return super.toString()+"I am to String()";
    }

    @Override
    public String getMessage() {
        return "I am get message() ";
    }
}

class AgeException extends Exception{
    @Override
    public String toString(){
        return "Age cannot be greater than 150 ";
    }

    @Override
    public String getMessage() {
        return "Make sure that the value of age entered is correct ";
    }
}

public class Errors_Java {
    public static void main(String[] args) {
        int a;
        Scanner sc=new Scanner(System.in);
        a=sc.nextInt();
        if(a<100){
            try {
                // throw new MyException();
                throw new ArithmeticException("This is new arithmetic
exception:");
            }catch (Exception e){
                System.out.println(e.getMessage());
                System.out.println(e.toString());
                System.out.println(e);
                e.printStackTrace();
            }
            System.out.println("Finished");
        }
    }
}
```

```
}  
}
```

Thank You