

EXCEPTION HANDLING PROGRAMS

i)

Code:

```
public class main{  
    public static void main(String[] args){  
        try{  
            int result=10/0;  
        }  
        catch(ArithmeticException e){  
            System.out.println("Caught exception "+e);  
        }  
        finally {  
            System.out.println("This is the finally block. It runs always.");  
        }  
    }  
}
```

ii)Age Exception with throws

Code:

```
class ageLimitException extends Exception{
    ageLimitException(String message){
        super(message);
    }
}

public class main2{
    public static void main(String[] args){
        try{
            ageLimit(17);
        }
        catch(ageLimitException e){
            System.out.println("Caught error "+e);
        }
    }

    public static void ageLimit(int age) throws ageLimitException{
        if (age<18){
            throw new ageLimitException("Age must me above 18 ");
        }
    }
}
```

iii)Age Exception**Code:**

```
public class main3{
    public static void main(String[] args){
        try{
            ageLimit(11);
        }
        catch(IllegalArgumentException e){
            System.out.println("Caught Error "+e);
        }
    }
    public static void ageLimit(int age){
        if (age<18){
            throw new IllegalArgumentException("Not elligible to vote");
        }
        System.out.println("Successfully accessed");
    }
}
```

iv)Filemissing error

Code

```
import java.io.*;
class Filemissing extends Exception{
    Filemissing(String message){
        super(message);
    }
}
```

```
}
```

```
}
```

```
public class main4{
```

```
public static void main(String[] args) throws Filemissing,  
IOException {
```

```
String filename="example.txt";
```

```
try{
```

```
readfile("example.txt");
```

```
}
```

```
catch(FileNotFoundException e){
```

```
throw new Filemissing("File not found: " + filename);
```

```
}
```

```
}
```

```
public static void readfile(String filename) throws  
Filemissing,IOException {
```

```
FileReader file = new FileReader(filename);
```

```
BufferedReader reader= new BufferedReader(file);
```

```
String line=reader.readLine();
```

```
while(line!=null){
```

```
System.out.println(line);
```

```
line=reader.readLine();
```

```
}
```

```
reader.close();
```

```
}
```

```
}
```