3.5.1

ackage throwkayword;

public class throwkayword {

public static void validate(int age) {

if(age<18) {

throw new ArithmeticException("Person is not eligible to vote");

}

else {

System.out.println("Person is eligible to vote!!");

}

}

public static void main(String args[]){

validate(13);

System.out.println("rest of the code...");

}

}

3.5.2

package thowskayword;

import java.io.IOException;

public class thowskayword {

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) {

thowskayword obj=new thowskayword();

obj.p();

}

}

3.5.3

package finallyblock;

public class finallyblock {

public static void main(String[] args) {

try{

int data=36/6;

System.out.println(data);

}

catch(NullPointerException e){

System.out.println(e);

}

finally {

System.out.println("finally block is always executed");

}

System.out.println("rest of phe code...");

}

}

3.5.4

package custumException;

class InvalidAgeException extends Exception

{

public InvalidAgeException (String str)

{

// calling the constructor of parent Exception

super(str);

}

}

public class custumException {

static void validate (int age) throws InvalidAgeException{

if(age < 18){

throw new InvalidAgeException("age is not valid to vote");

}

else {

System.out.println("welcome to vote");

}

}

// main method

public static void main(String args[])

{

try

{

validate(13);

}

catch (InvalidAgeException ex)

{

System.out.println("Caught the exception");

System.out.println("Exception occured: " + ex);

}

System.out.println("rest of the code...");

}

}