Debug the following programs (using Eclipse)-

1) Prime.java (discussed in the class)

2) AException.java

3) AIOB.java

4) Temp.java

5) If1.java

6) If2.java

7) NFE.java

Prime.java

import java.util.Scanner;

class Prime

{

public static void main(String[] args)

{

int n,p;

Scanner s=new Scanner(System.in);

System.out.println("Enter upto which number prime numbers are needed");

n=s.nextInt();

for(int i=2;i<n;i++)

{

p=0;

for(int j=2;j<i;j++)

{

if(i%j==0)

p=1;

}

if(p==0)

System.out.println(i);

}

}

}

AException.java

public class AException

{

public static void main(String args[])

{

int a = 10, b = 0, c;

System.out.println("Hello 1");

c = a/b;

System.out.println(c);

System.out.println("Hello 2");

System.out.println("Hello 3");

}

}

AIOB.java

public class AIOB

{

public static void main(String args[])

{

int marks[] = { 40, 50, 60 };

System.out.println("Hello 1");

int m1 = marks[3]; // permitted index numbers are 0, 1 and 2

System.out.println("Marks are " + m1);

System.out.println("Hello 2");

System.out.println("Hello 3");

}

}

Temp.java

public class Temp {

public int x = 10;

public static void main(String[] args) {

Temp t = initT();

int i = t.x;

}

private static Temp initT() {

return null;

}

}

If1.java

//Trace the following program using hand simluation and then using Eclipse

//what is the output?

public class If1

{

static boolean b;

public static void main(String [] args)

{

short hand = 42;

if ( hand < 50 && !b ) /\* Line 7 \*/

hand++;

if ( hand > 50 ); /\* Line 9 \*/

else if ( hand > 40 )

{

hand += 7;

hand++;

}

else

--hand;

System.out.println(hand);

}

}

If2.java

public class If2

{

static boolean b1, b2;

public static void main(String [] args)

{

int x = 0;

if ( !b1 ) /\* Line 7 \*/

{

if ( !b2 ) /\* Line 9 \*/

{

b1 = true;

x++;

if ( 5 > 6 )

{

x++;

}

if ( !b1 )

x = x + 10;

else if ( b2 = true ) /\* Line 19 \*/

x = x + 100;

else if ( b1 | b2 ) /\* Line 21 \*/

x = x + 1000;

}

}

System.out.println(x);

}

}

NFE.java

public class NFE

{

public static void main(String args[])

{

String str1= "10";

int x = Integer.parseInt(str1);

System.out.println(x\*x); // prints 100

String str2= "ten";

int y = Integer.parseInt(str2);

}

}