EAST WEST UNIVERSITY

Course Title: CSE110

Section: 06

Semester: Summer 22

LAB-01

SUBMITTED TO

Mahamudul Hasan

Department of Computer Science & Engineering

East-West University

SUBMITTED BY

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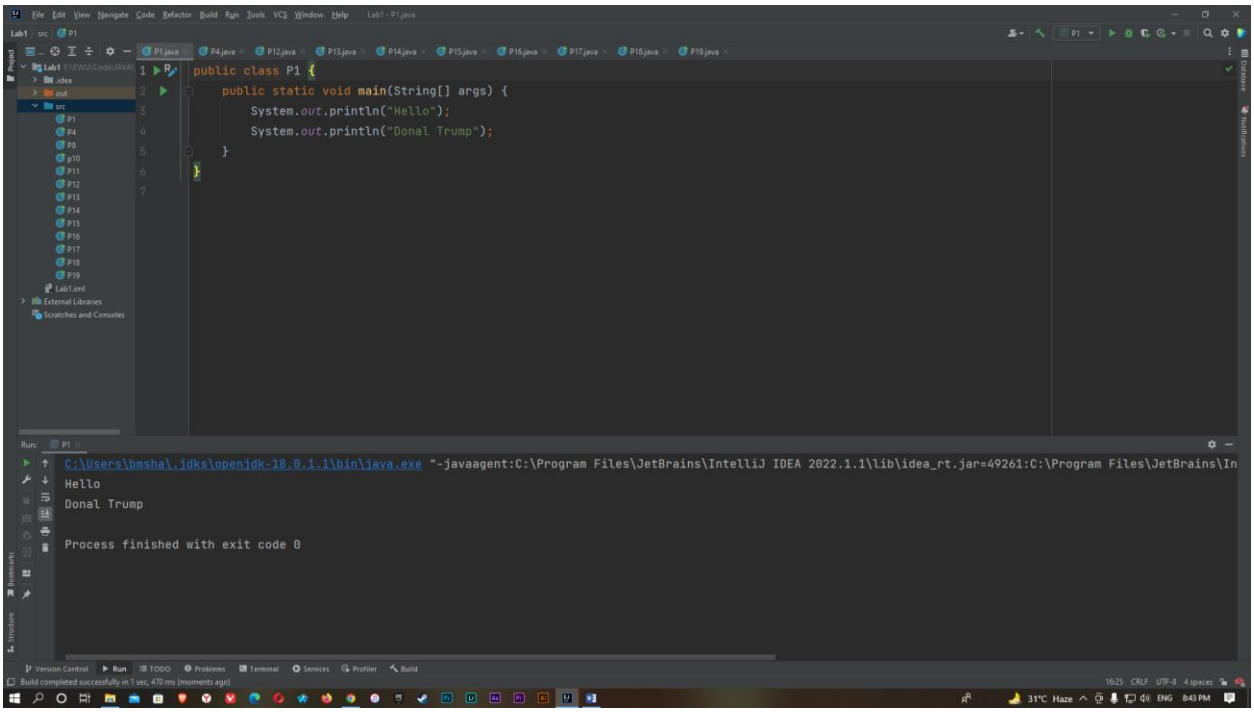
P1:

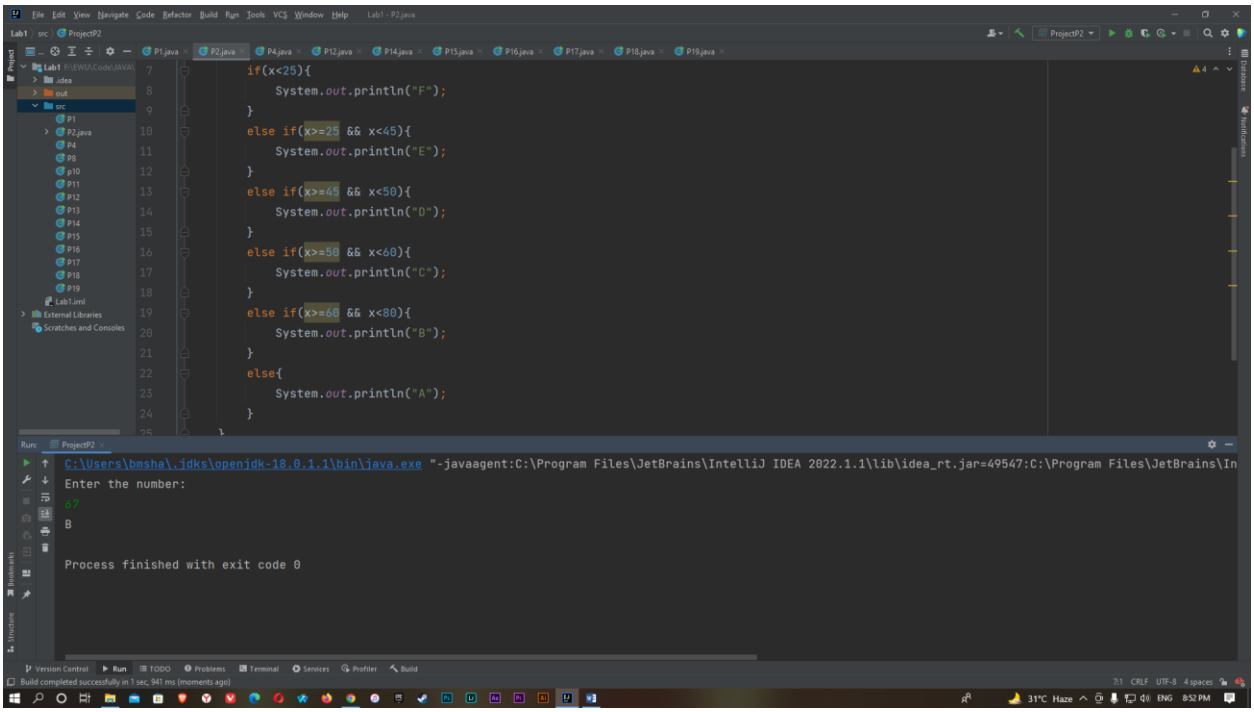
```
public class P1 {
    public static void main(String[] args) {
        System.out.println("Hello");
        System.out.println("Donal Trump");
    }
}
```



P2:

```
import java.util.Scanner;
class ProjectP2 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        System.out.println("Enter the number:");
            int x=input.nextInt();
            if(x<25){
            System.out.println("F");
            }
            else if(x>=25 && x<45){
            System.out.println("E");
            }
```

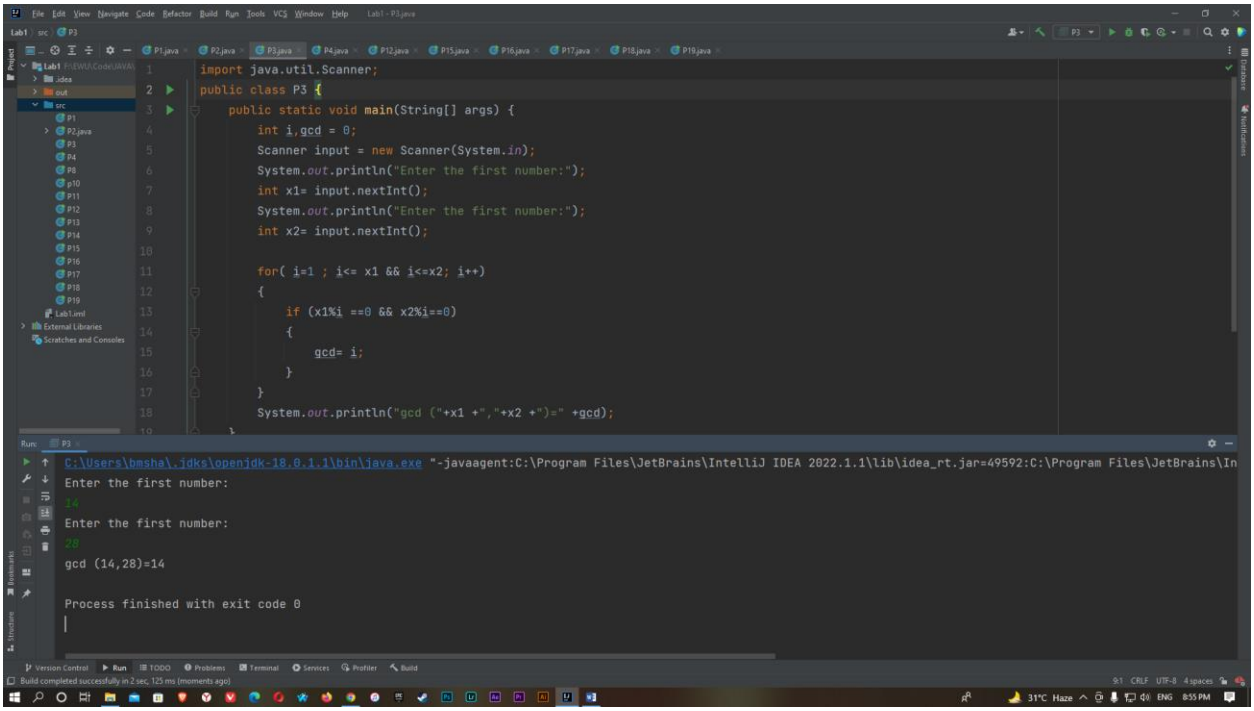
```
        else if(x>=45 && x<50){
        System.out.println("D");
        }
        else if(x>=50 && x<60){
        System.out.println("C");
        }
        else if(x>=60 && x<80){
        System.out.println("B");
        }
        else{
           System.out.println("A");
        }
    }
}
```



P3:

```
package project3;

import java.util.Scanner;

public class Project3 {
```

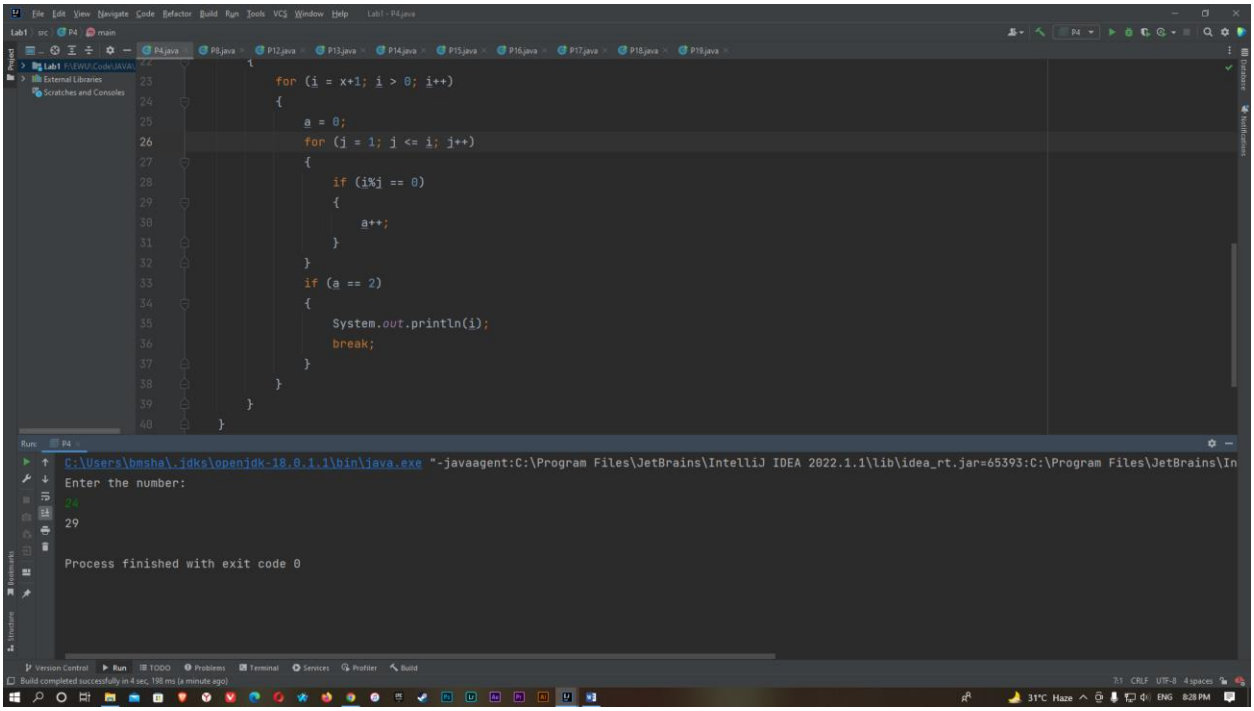
```
    public static void main(String[] args) {
        int i,gcd = 0;
        Scanner input = new Scanner(System.in);
        System.out.println("Enter the first number:");
        int x1= input.nextInt();
        System.out.println("Enter the first number:");
        int x2= input.nextInt();

       for( i=1 ; i<= x1 && i<=x2; i++)
       {
      if (x1%i ==0 && x2%i==0)
      {
       gcd= i;
      }
      }
       System.out.println("gcd ("+x1 +","+x2 +")=" +gcd);
    }
}
```



P4:

```
import java.util.Scanner;
public class P4
{
   public static void main(String[] args)
   {
      Scanner input = new Scanner(System.in);
      int i, a=0, j, x;
      System.out.println("Enter the number:");
      x = input.nextInt();
      for (i = 2; i < x; i++)
      {
         if (x % i == 0)
         {
            a++;
         }
      }
      if (a <= 1)
      {
         System.out.println(x);
      }
      else
      {
         for (i = x+1; i > 0; i++)
         {
            a = 0;
            for (j = 1; j <= i; j++)
            {
               if (i%j == 0)
               {
                  a++;
               }
```

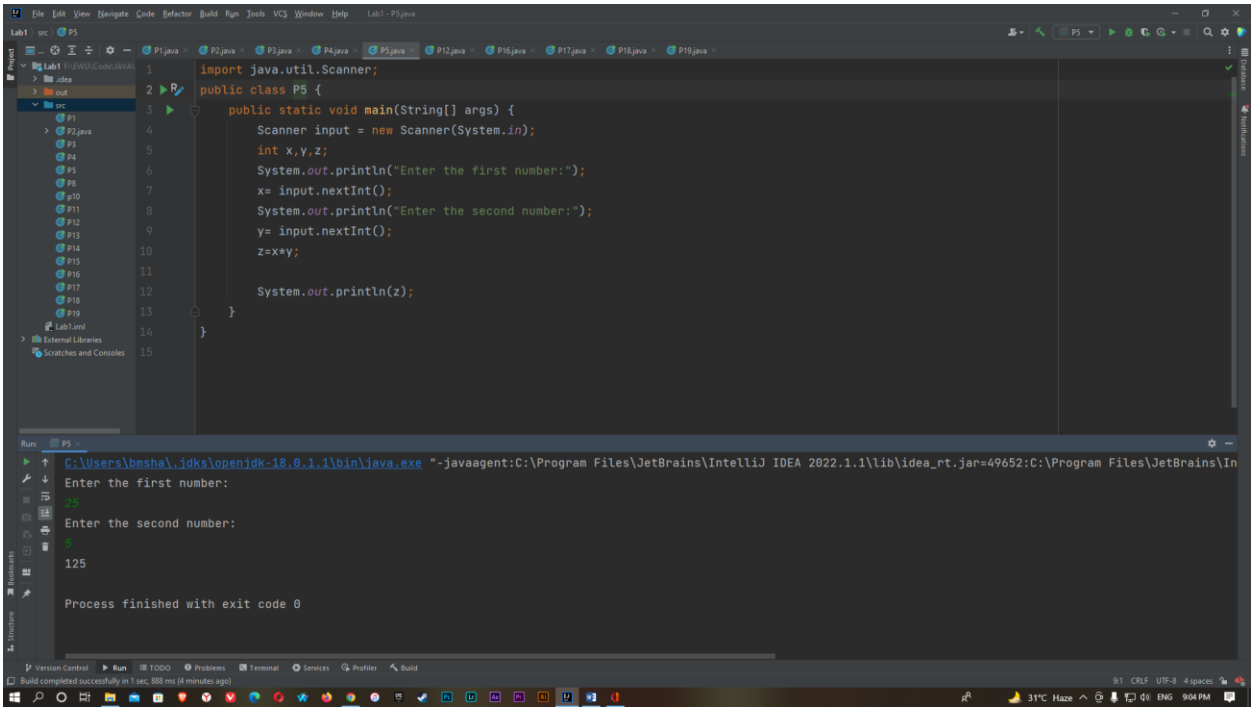
```
            }
            if (a == 2)
            {
                System.out.println(i);
                break;
            }
        }
    }
}
```



P5:

```
package project5;
import java.util.Scanner;
public class Project5 {
   public static void main(String[] args) {
      Scanner input = new Scanner(System.in);
      int x,y,z;
      System.out.println("Enter the first number:");
      x= input.nextInt();
```

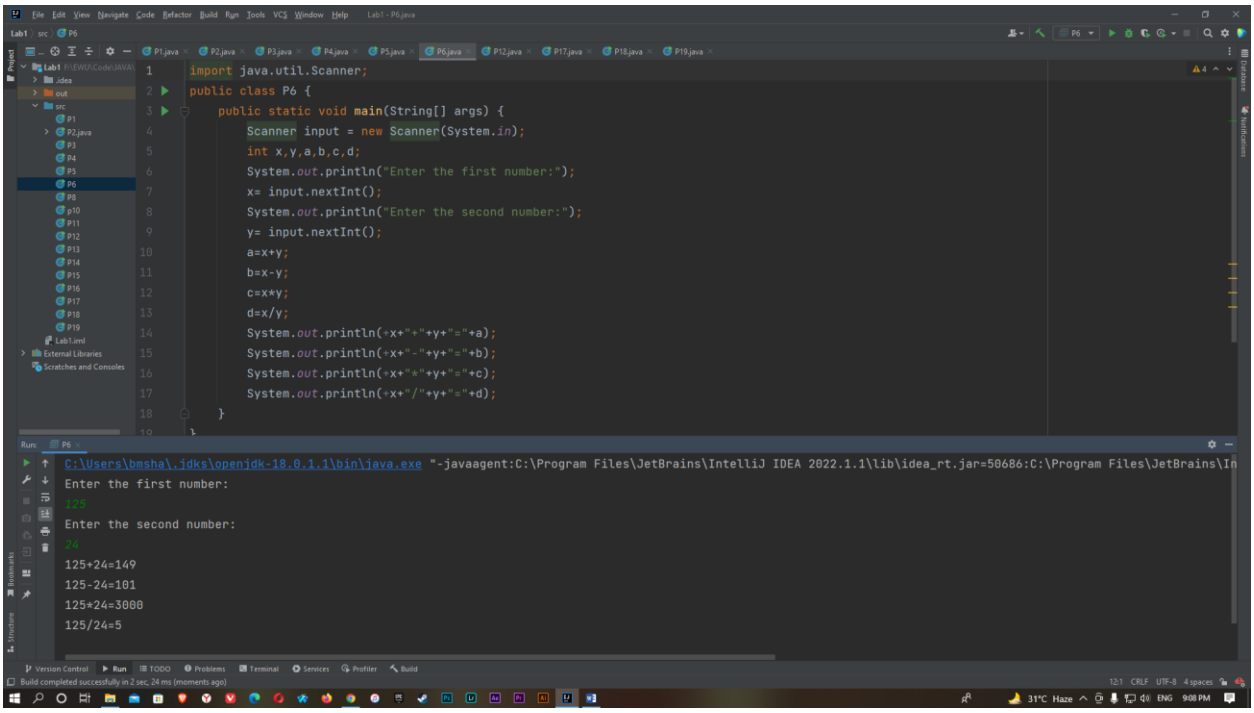
```
        System.out.println("Enter the second number:");
        y= input.nextInt();
        z=x*y;
        System.out.println(z);
    }
}
```



P6:

```
package p6;
import java.util.Scanner;
public class P6 {

    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        int x,y,a,b,c,d;
        System.out.println("Enter the first number:");
        x= input.nextInt();
        System.out.println("Enter the second number:");
        y= input.nextInt();
        a=x+y;
```

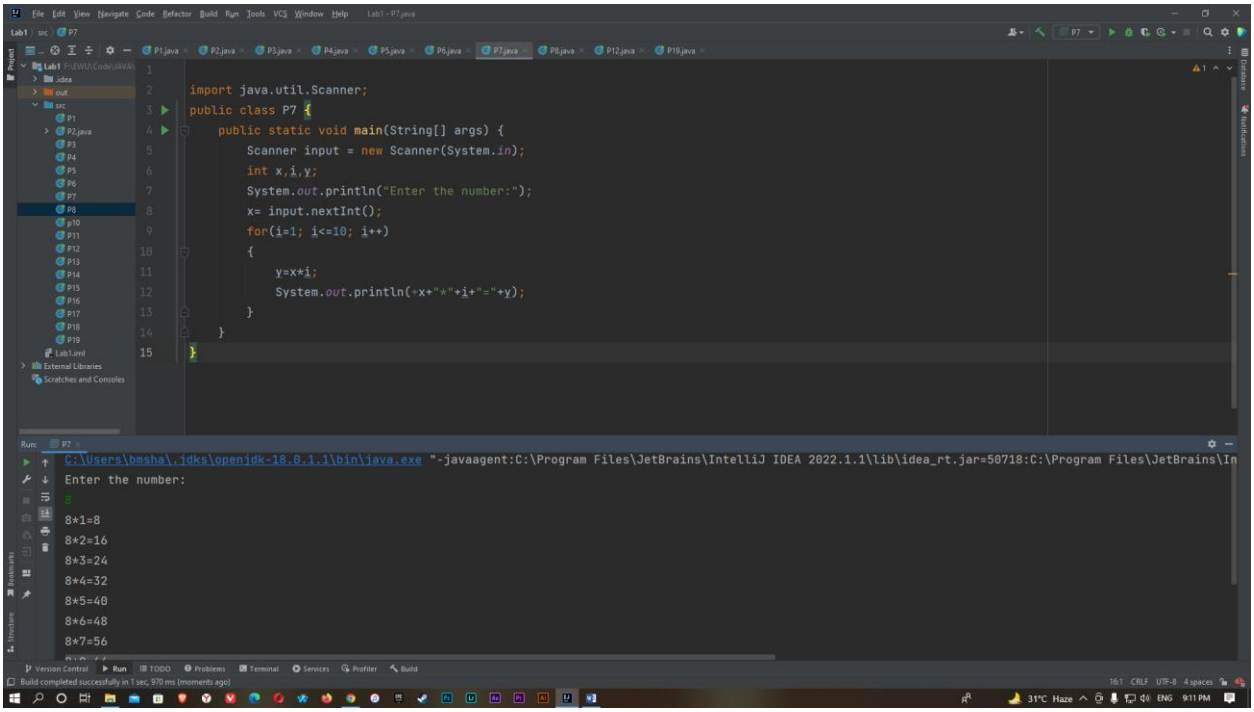
```
    b=x-y;
    c=x*y;
    d=x/y;
    System.out.println(+x+"+"+y+"="+a);
    System.out.println(+x+"-"+y+"="+b);
    System.out.println(+x+"*"+y+"="+c);
    System.out.println(+x+"/"+y+"="+d);
  }
}
```



P7:

```
package p7;
import java.util.Scanner;
public class P7 {
   public static void main(String[] args) {
       Scanner input = new Scanner(System.in);
      int x,i,y;
      System.out.println("Enter the number:");
      x= input.nextInt();
      for(i=1; i<=10; i++)
```

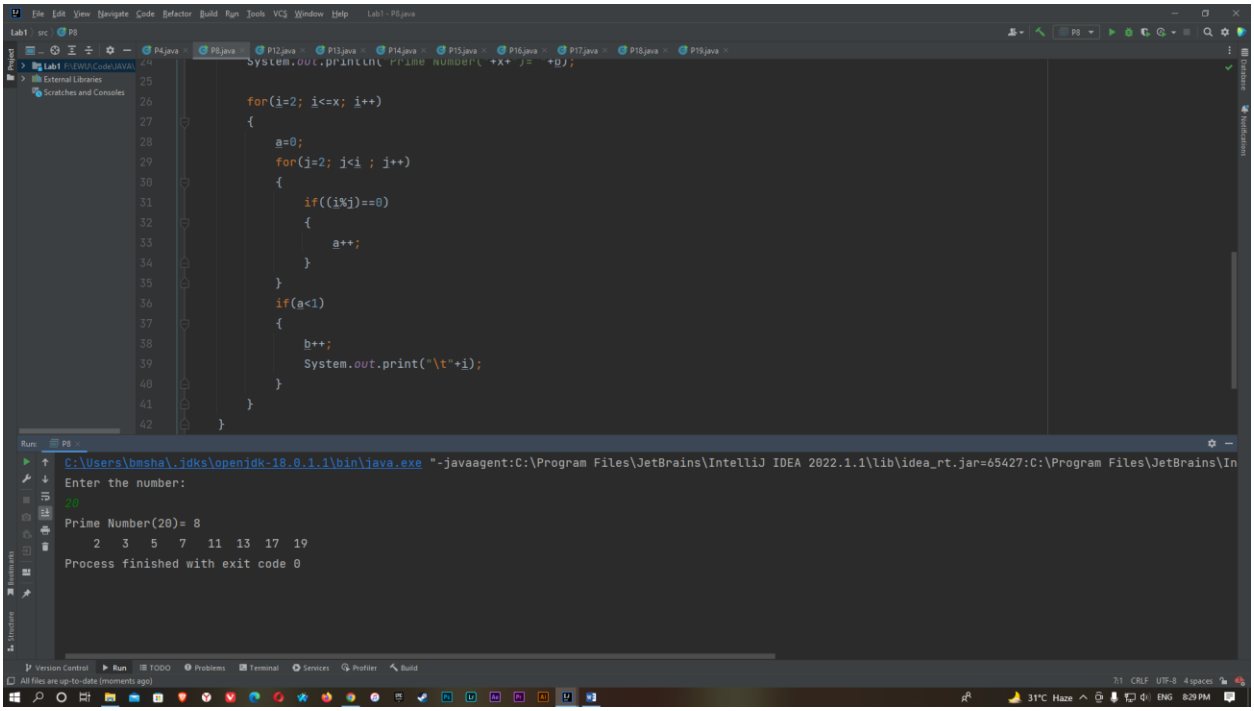
```
    {
    y=x*i;
    System.out.println(+x+"*"+i+"="+y);
    }
  }
}
```



P8:

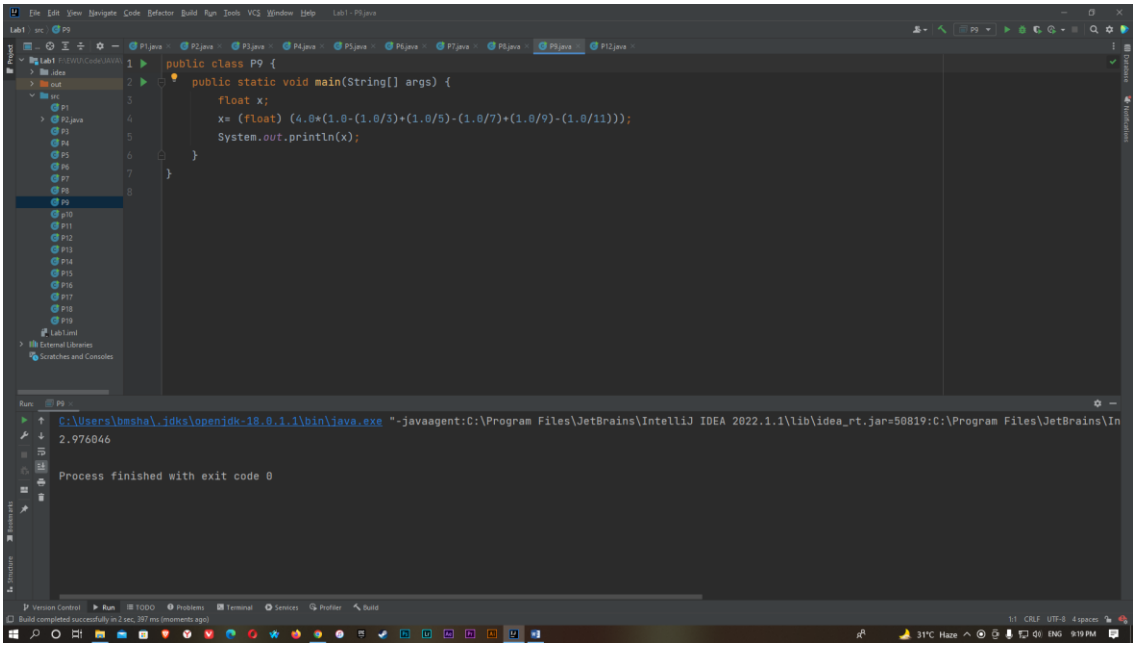
```
import java.util.Scanner;
public class P8 {
   public static void main(String[] args) {
      Scanner input= new Scanner (System.in);
      int x,i,j,a,b=0;
      System.out.println("Enter the number:");
      x= input.nextInt();

      for(i=2; i<=x; i++)
      {
         a=0;
         for(j=2; j<i ; j++)
```

```
        {
            if((i%j)==0)
            {
                a++;
            }
        }
        if(a<1)
        {
            b++;
        }
    }
    System.out.println("Prime Number("+x+")= "+b);

    for(i=2; i<=x; i++)
    {
        a=0;
        for(j=2; j<i ; j++)
        {
            if((i%j)==0)
            {
                a++;
            }
        }
        if(a<1)
        {
            b++;
            System.out.print("\t"+i);
        }
    }
  }
}
```



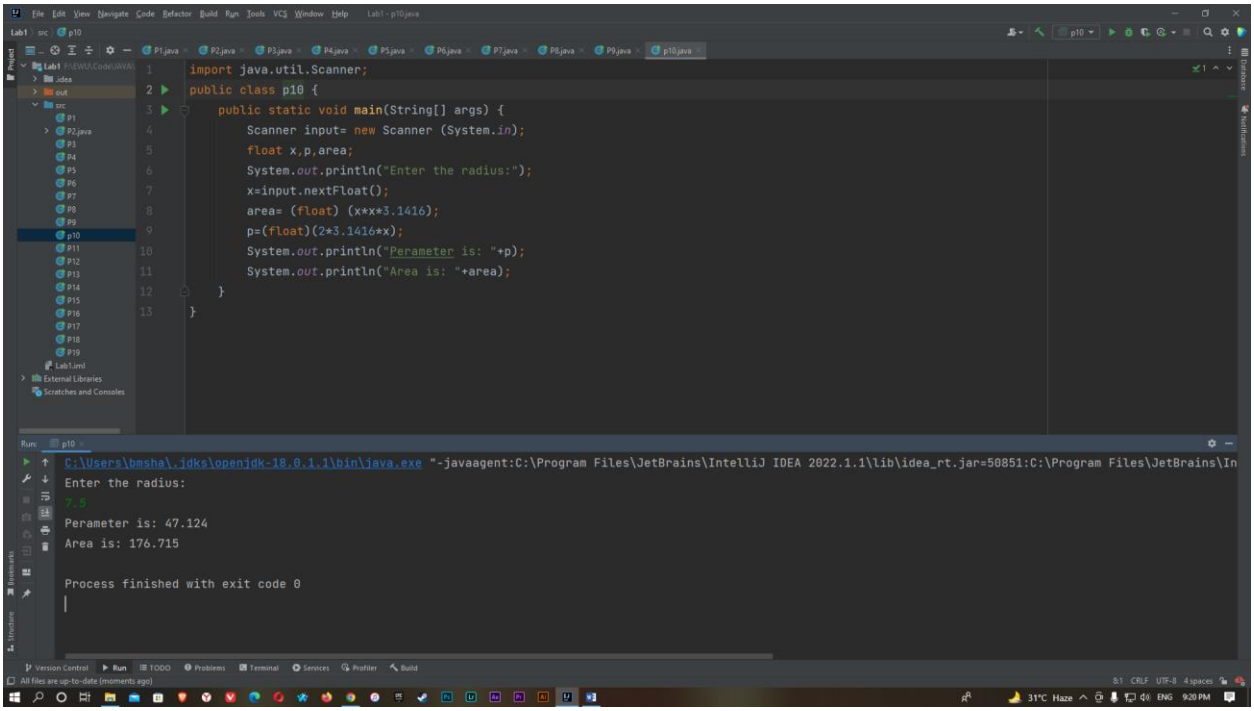
P9:

```
package p9;

public class P9 {

   public static void main(String[] args) {

     float x;

     x= (float) (4.0*(1.0-(1.0/3)+(1.0/5)-(1.0/7)+(1.0/9)-(1.0/11)));

     System.out.println(x);

   }

}
```



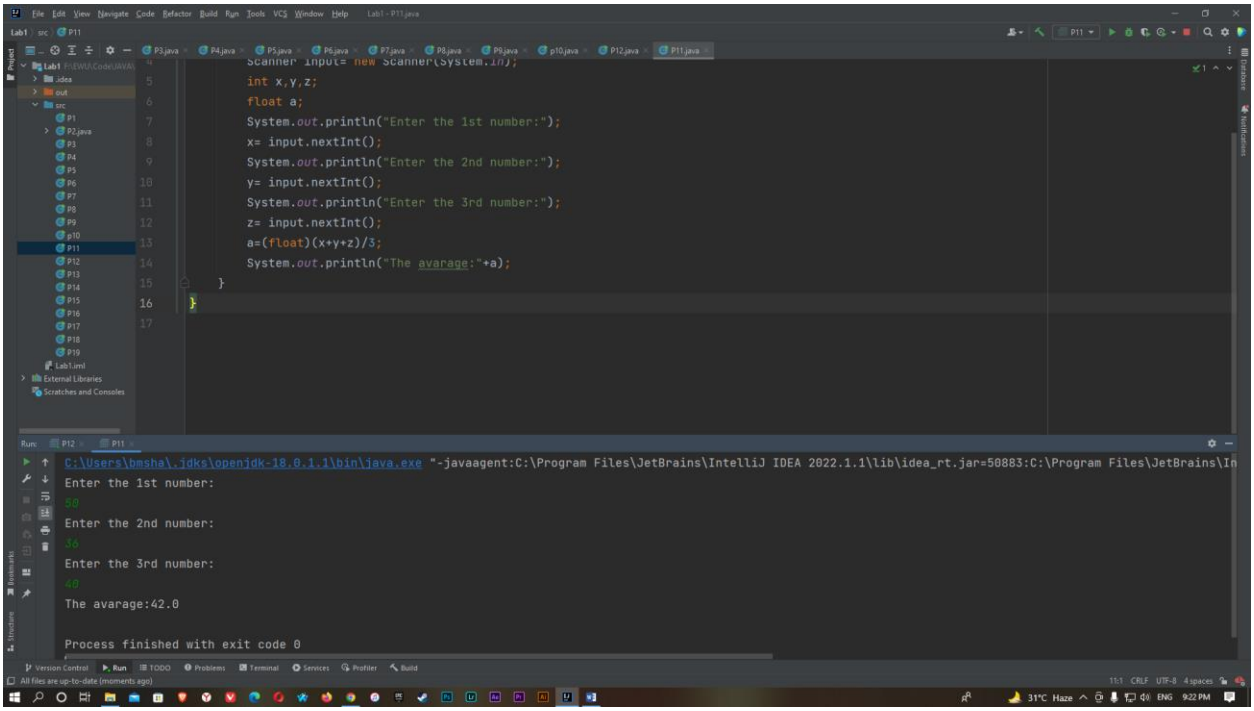
P10:

```
import java.util.Scanner;
public class p10 {
    public static void main(String[] args) {
        Scanner input= new Scanner (System.in);
        float x,p,area;
        System.out.println("Enter the radius:");
        x=input.nextFloat();
        area= (float) (x*x*3.1416);
        p=(float)(2*3.1416*x);
        System.out.println("Perimeter is: "+p);
        System.out.println("Area is: "+area);
    }
}
```



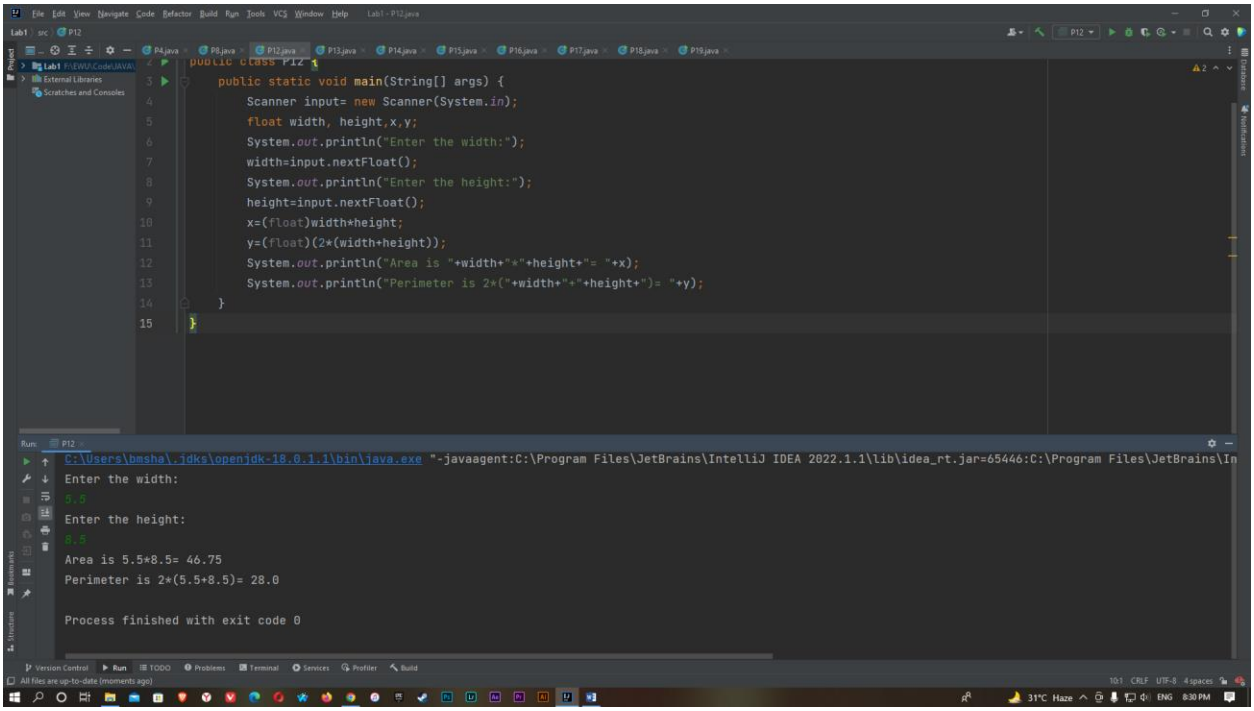
P11:

```
import java.util.Scanner;
public class P11 {
    public static void main(String[] args) {
        Scanner input= new Scanner(System.in);
        int x,y,z;
        float a;
        System.out.println("Enter the 1st number:");
        x= input.nextInt();
        System.out.println("Enter the 2nd number:");
        y= input.nextInt();
        System.out.println("Enter the 3rd number:");
        z= input.nextInt();
        a=(float)(x+y+z)/3;
        System.out.println("The avarage:"+a);
    }
}
```



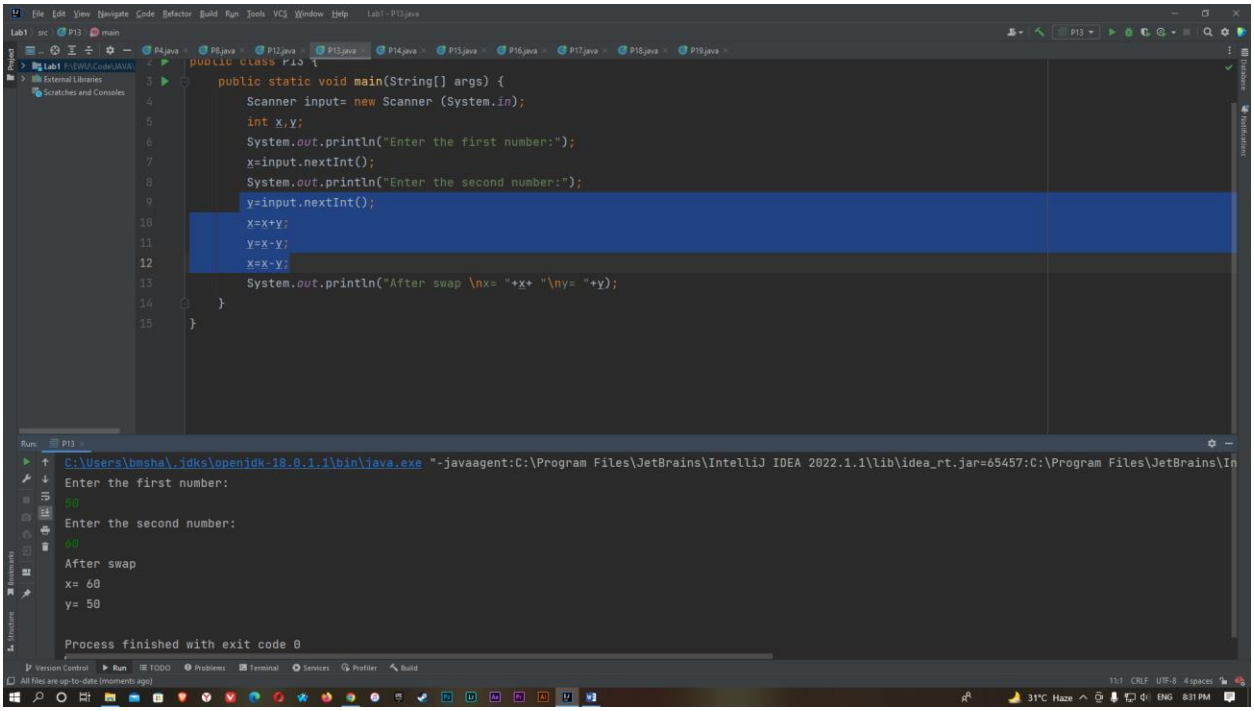
P12:

```
import java.util.Scanner;
public class P12 {
    public static void main(String[] args) {
        Scanner input= new Scanner(System.in);
        float width, height,x,y;
        System.out.println("Enter the width:");
        width=input.nextFloat();
        System.out.println("Enter the height:");
        height=input.nextFloat();
        x=(float)width*height;
        y=(float)(2*(width+height));
        System.out.println("Area is "+width+"*"+height+"= "+x);
        System.out.println("Perimeter is 2*("+width+"+"+height+")= "+y);
    }
}
```



P13:

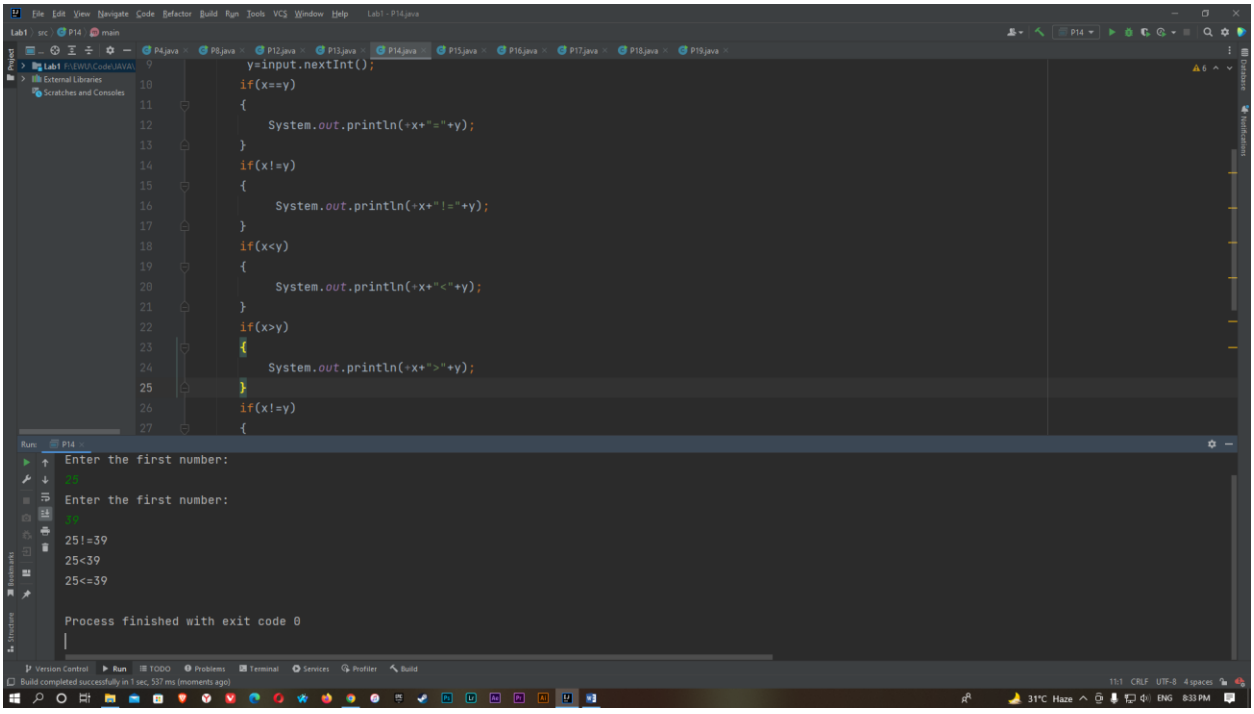
```
import java.util.Scanner;
public class P13 {
    public static void main(String[] args) {
        Scanner input= new Scanner (System.in);
        int x,y;
        System.out.println("Enter the first number:");
        x=input.nextInt();
        System.out.println("Enter the second number:");
        y=input.nextInt();
        x=x+y;
        y=x-y;
        x=x-y;
        System.out.println("After swap \nx= "+x+ "\ny= "+y);
    }
}
```



P14:

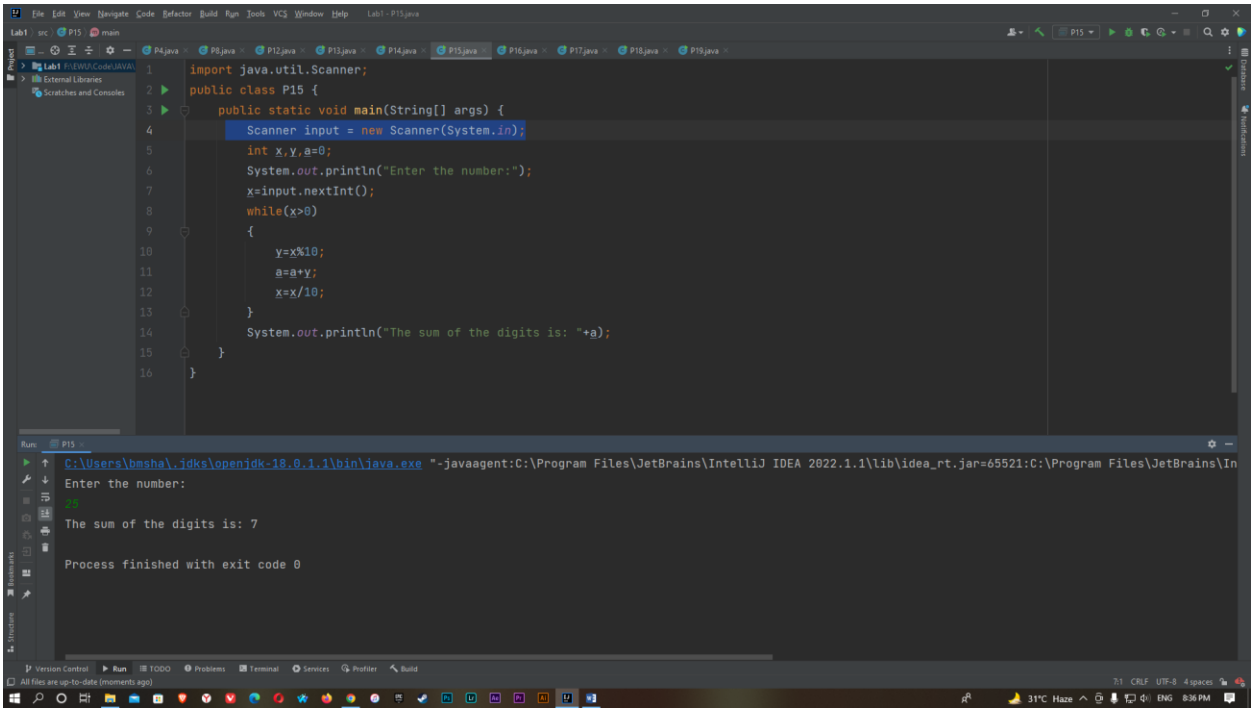
```
import java.util.Scanner;
public class P14 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        int x,y;
        System.out.println("Enter the first number:");
        x=input.nextInt();
        System.out.println("Enter the first number:");
        y=input.nextInt();
       if(x==y)
       {
          System.out.println(+x+"="+y);
       }
       if(x!=y)
       {
           System.out.println(+x+"!="+y);
       }
       if(x<y)
```

```
    {
        System.out.println(+x+"<"+y);
    }
    if(x>y)
    {
       System.out.println(+x+">"+y);
    }
    if(x!=y)
    {
       if (x >= y) {
          System.out.println(+x + ">=" + y);
       }
       if (x <= y) {
          System.out.println(+x + "<=" + y);
       }
    }
  }
}
```



P15:

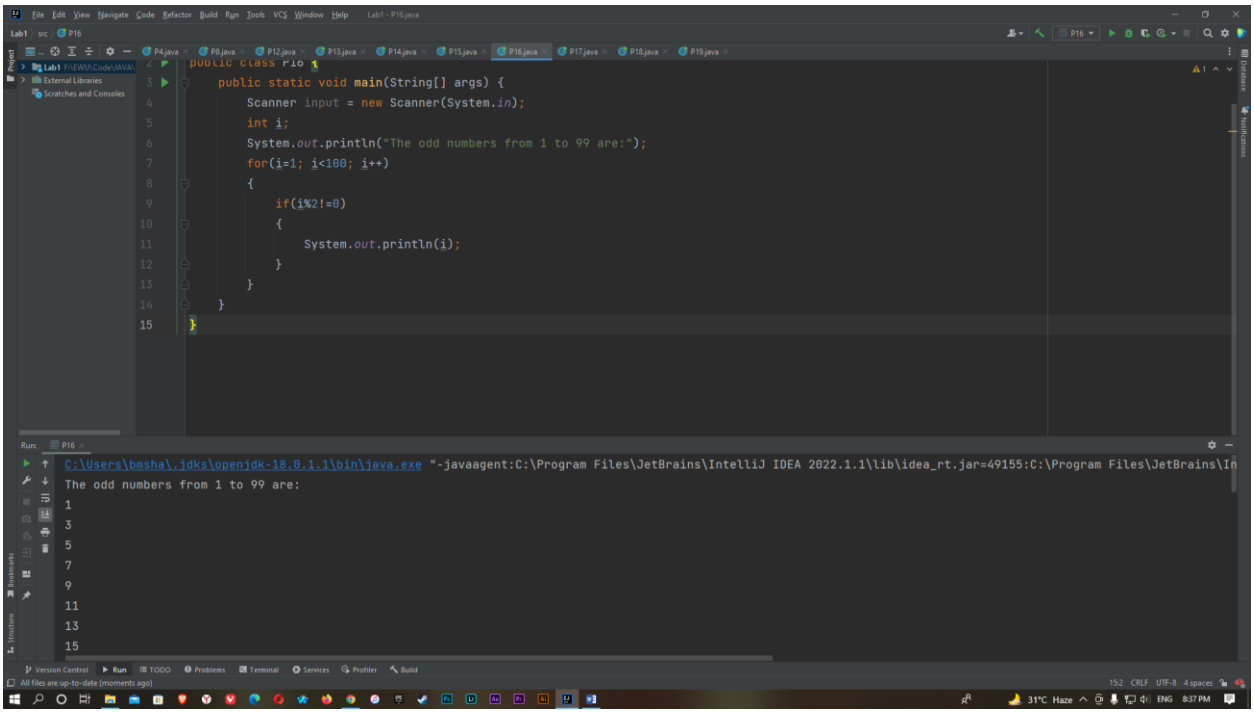
```
import java.util.Scanner;
public class P15 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        int x,y,a=0;
        System.out.println("Enter the number:");
        x=input.nextInt();
        while(x>0)
        {
            y=x%10;
            a=a+y;
            x=x/10;
        }
        System.out.println("The sum of the digits is: "+a);
    }
}
```



P16:

```
import java.util.Scanner;
public class P16 {
    public static void main(String[] args) {
```

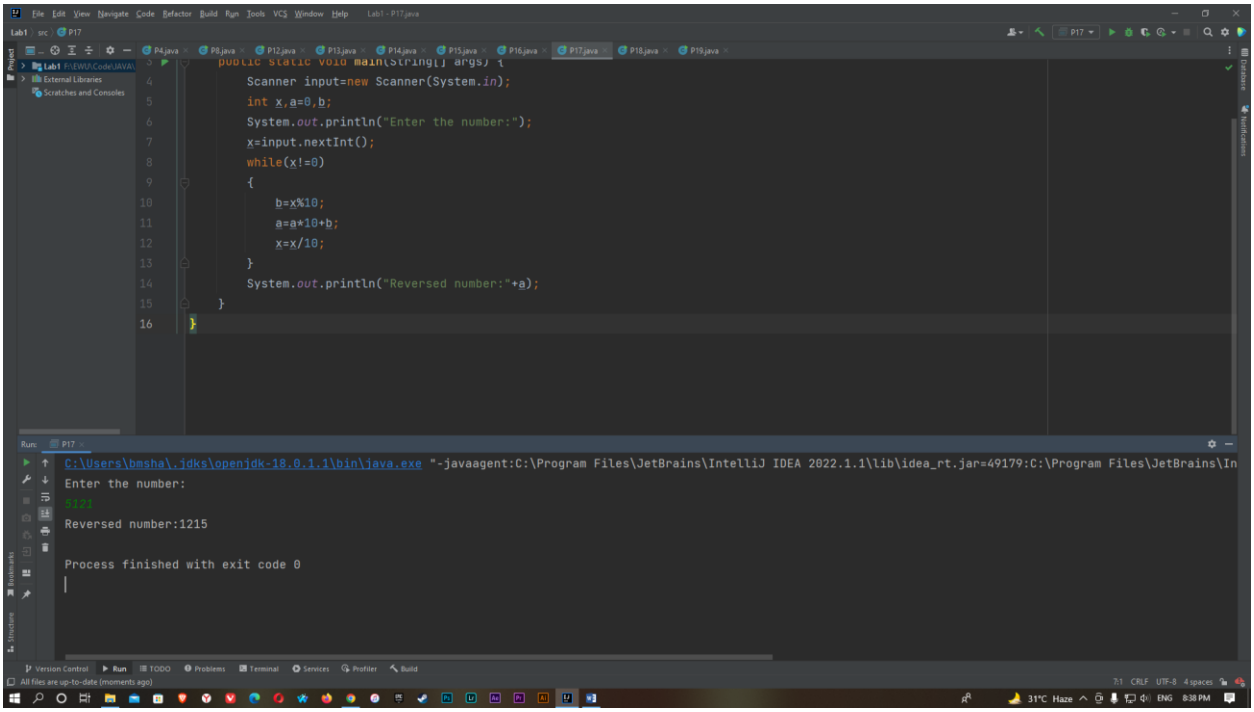
```
        Scanner input = new Scanner(System.in);
        int i;
        System.out.println("The odd numbers from 1 to 99 are:");
        for(i=1; i<100; i++)
        {
            if(i%2!=0)
            {
                System.out.println(i);
            }
        }
    }
}
```



P17:

```
import java.util.Scanner;
public class P17 {
    public static void main(String[] args) {
        Scanner input=new Scanner(System.in);
        int x,a=0,b;
        System.out.println("Enter the number:");
```

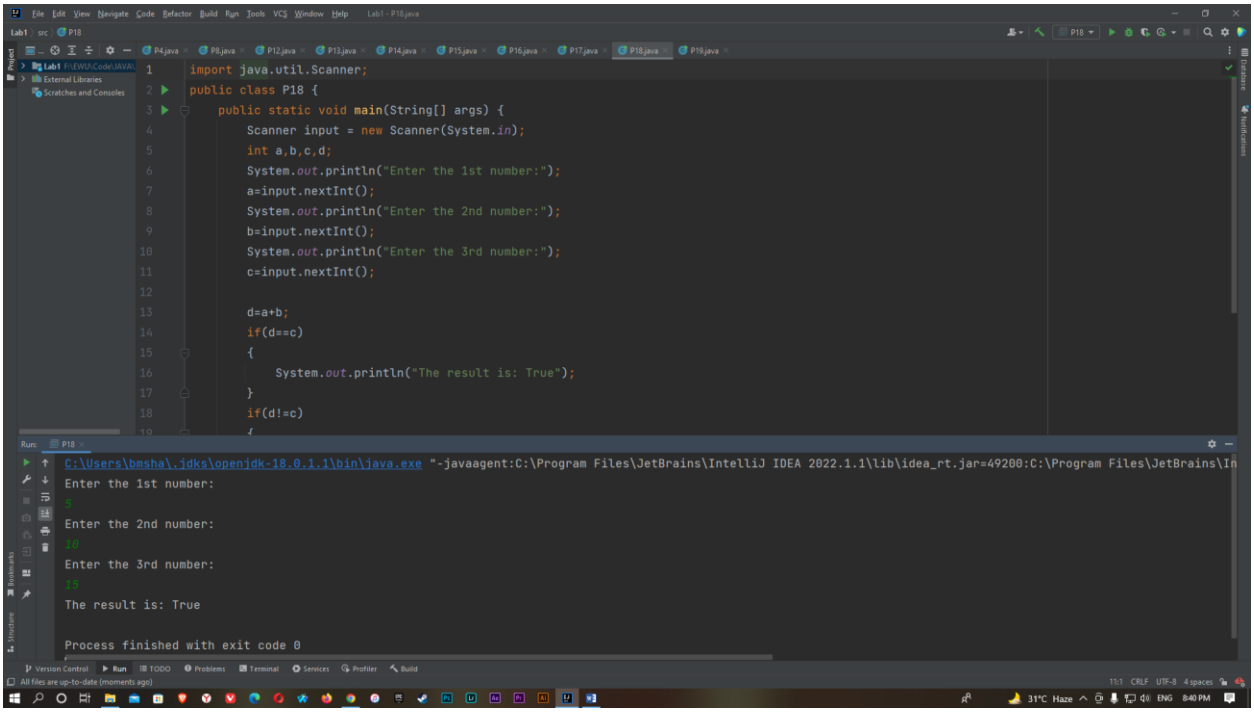
```
        x=input.nextInt();
        while(x!=0)
        {
            b=x%10;
            a=a*10+b;
            x=x/10;
        }
        System.out.println("Reversed number:"+a);
    }
}
```



P18:

```
import java.util.Scanner;
public class P18 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        int a,b,c,d;
        System.out.println("Enter the 1st number:");
        a=input.nextInt();
        System.out.println("Enter the 2nd number:");
```

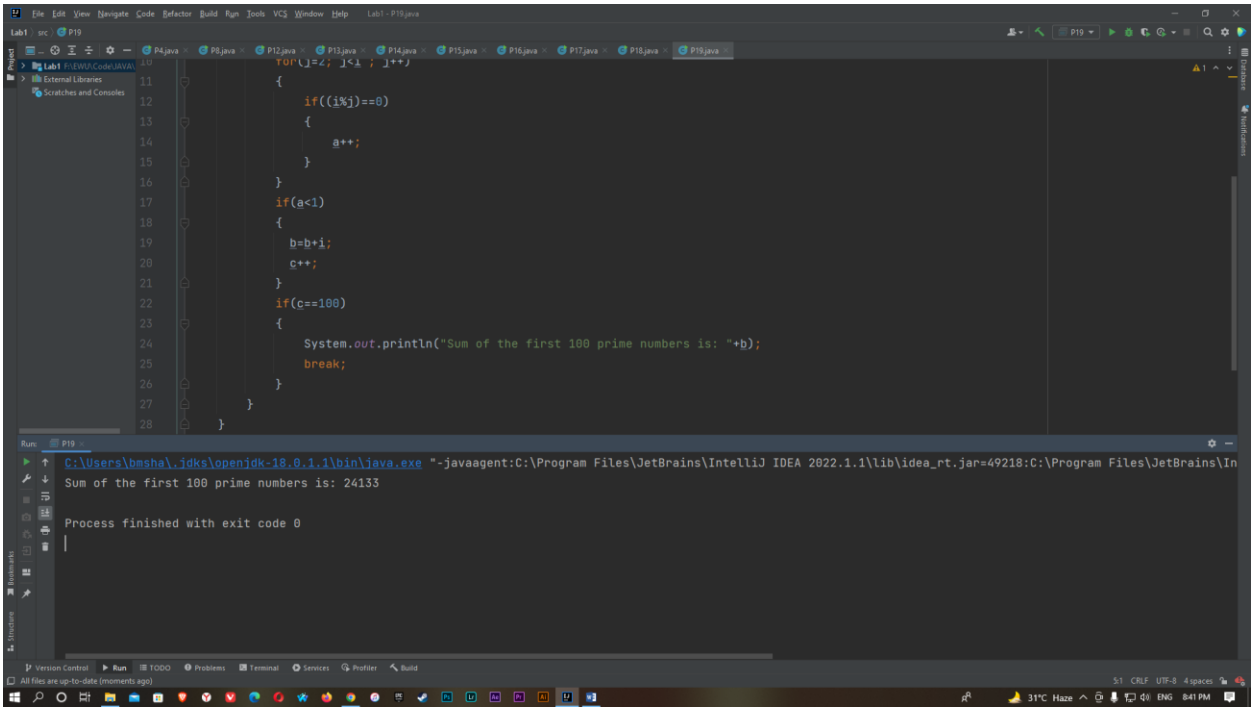
```
        b=input.nextInt();
        System.out.println("Enter the 3rd number:");
        c=input.nextInt();

        d=a+b;
        if(d==c)
        {
            System.out.println("The result is: True");
        }
        if(d!=c)
        {
            System.out.println("The result is: False");
        }
    }
}
```



P19:

```
import java.util.Scanner;
public class P19
{
```

```
    public static void main(String[] args)
    {
        int i,a,j,b=0,c=0;
        for(i=2; i>0; i++)
        {
            a=0;
            for(j=2; j<i ; j++)
            {
                if((i%j)==0)
                {
                    a++;
                }
            }
            if(a<1)
            {
              b=b+i;
              c++;
            }
            if(c==100)
            {
                System.out.println("Sum of the first 100 prime numbers is: "+b);
                break;
            }
        }
    }
}
```


for(j=2; j<i ; j++)
{
if((i%j)==0)
{
a++;
}
}
if(a<1)
{
b=b+i;
c++;
}
if(c==100)
{
System.out.println("Sum of the first 100 prime numbers is: "+b);
break;
}
}
}
C:\Users\bmsha\.jdks\openjdk-18.0.1.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2022.1.1\lib\idea_rt.jar=49218:C:\Program Files\JetBrains\In
Sum of the first 100 prime numbers is: 24133
Process finished with exit code 0