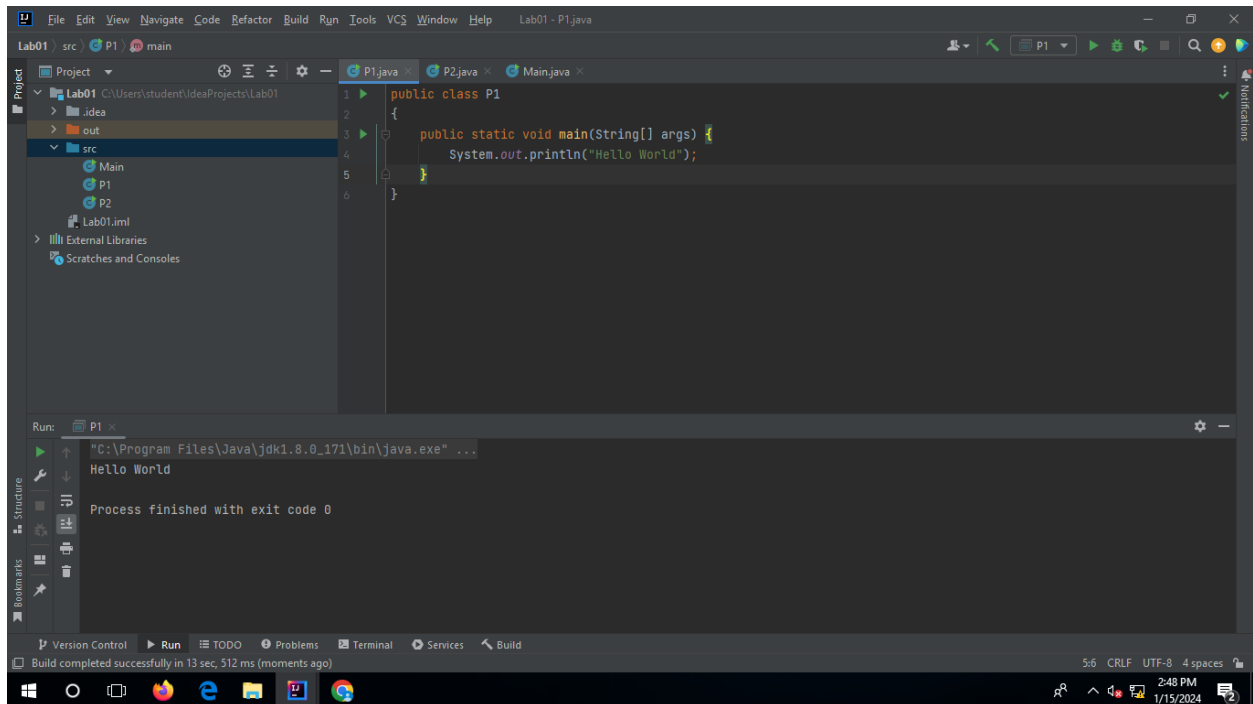


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1)

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



2)

```
public class P2 {
    public static void main(String[] args) {
        int a = 10;
        float b = 5;
        long c = 100000;
        char d = 'e';
        String s = "Hello";
        System.out.println("int datatype: "+a);
        System.out.println("float datatype: "+b);
        System.out.println("long datatype: "+c);
        System.out.println("char datatype: "+d);
        System.out.println("string datatype: "+s);
    }
}
```

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```
File Edit View Navigate Code Refactor Build Run Tools VCS Window Help Lab01 - P2.java
Lab01 src P2 main
Project
  Lab01
    .idea
    out
    src
      Main
      P1
      P2
      Lab01.iml
    External Libraries
    Scratches and Consoles
P1.java P2.java Main.java
1 public class P2 {
2     public static void main(String[] args) {
3         int a = 10;
4         float b = 5;
5         long c = 100000;
6         char d = 'e';
7         String s = "Hello";
8         System.out.println("int datatype: "+a);
9         System.out.println("float datatype: "+b);
10        System.out.println("long datatype: "+c);
11        System.out.println("char datatype: "+d);
12        System.out.println("string datatype: "+s);
13    }
14 }
Run: P2
"C:\Program Files\Java\jdk1.8.0_171\bin\java.exe" ...
int datatype: 10
float datatype: 5.0
long datatype: 100000
char datatype: e
string datatype: Hello
Process finished with exit code 0
Version Control Run TODO Problems Terminal Services Build
All files are up-to-date (moments ago)
10:19 CRLF UTF-8 4 spaces
2:55 PM 1/15/2024
```

3)

```
import java.util.Scanner;

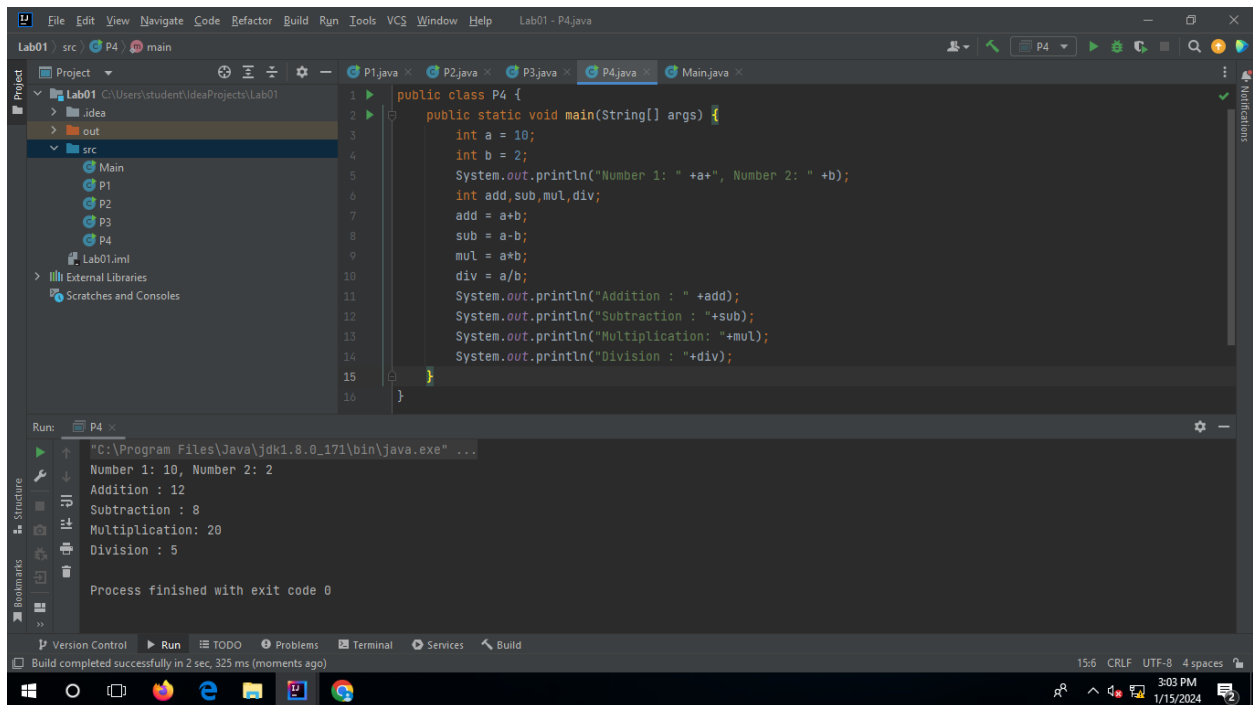
public class P3 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int a = sc.nextInt();
        System.out.println("You entered : "+a);
    }
}
```

```
File Edit View Navigate Code Refactor Build Run Tools VCS Window Help Lab01 - P3.java
Lab01 src P3
Project
  Lab01
    .idea
    out
    src
      Main
      P1
      P2
      P3
      Lab01.iml
    External Libraries
    Scratches and Consoles
P1.java P2.java P3.java Main.java
1 import java.util.Scanner;
2
3 public class P3 {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         int a = sc.nextInt();
7         System.out.println("You entered : "+a);
8     }
9 }
Run: P3
"C:\Program Files\Java\jdk1.8.0_171\bin\java.exe" ...
You entered : 10
Process finished with exit code 0
Version Control Run TODO Problems Terminal Services Build
Build completed successfully in 11 sec, 671 ms (a minute ago)
6:1 CRLF UTF-8 4 spaces
2:58 PM 1/15/2024
```

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4)

```
public class P4 {  
    public static void main(String[] args) {  
        int a = 10;  
        int b = 2;  
        System.out.println("Number 1: " +a+" , Number 2: " +b);  
        int add,sub,mul,div;  
        add = a+b;  
        sub = a-b;  
        mul = a*b;  
        div = a/b;  
        System.out.println("Addition : " +add);  
        System.out.println("Subtraction : "+sub);  
        System.out.println("Multiplication: "+mul);  
        System.out.println("Division : "+div);  
    }  
}
```



5)

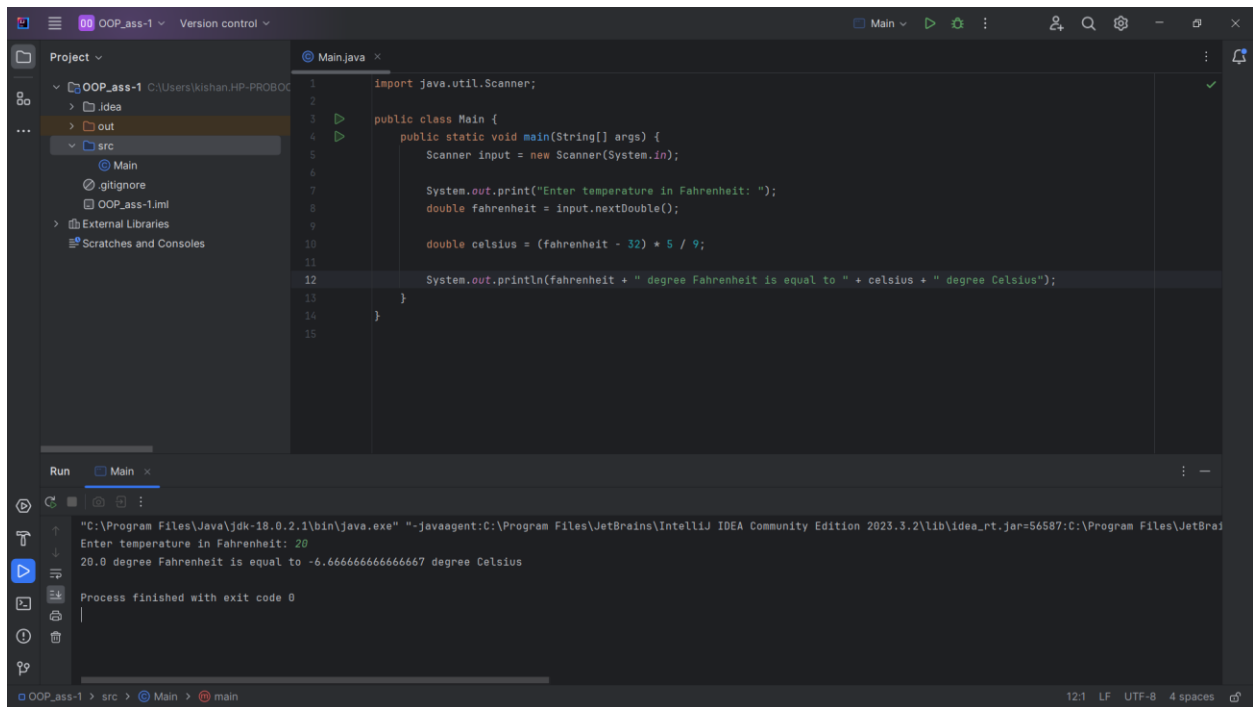
```
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);

        System.out.print("Enter temperature in Fahrenheit: ");
        double fahrenheit = input.nextDouble();

        double celsius = (fahrenheit - 32) * 5 / 9;

        System.out.println(fahrenheit + " degree Fahrenheit is equal to " +
celsius + " degree Celsius");
    }
}
```



6)

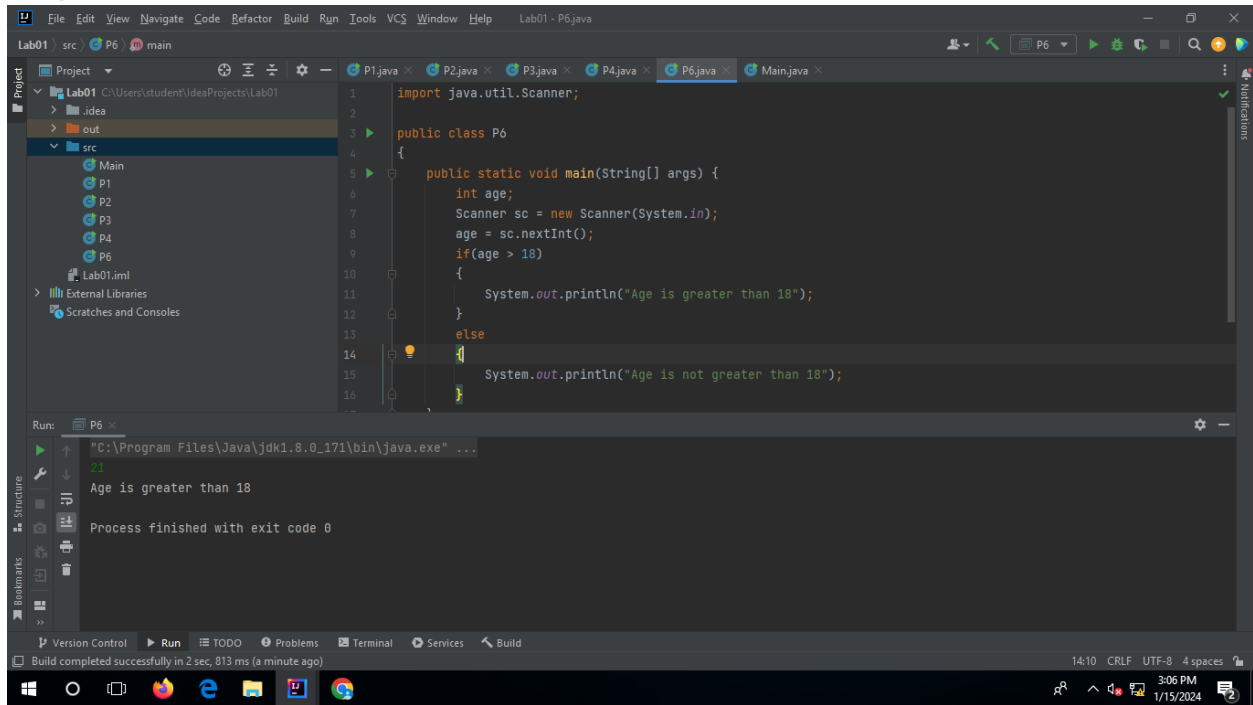
```
import java.util.Scanner;

public class P6
{
    public static void main(String[] args) {
        int age;
        Scanner sc = new Scanner(System.in);
        age = sc.nextInt();
        if (age > 18)
        {
            System.out.println("Age is greater than 18");
        }
    }
}
```

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```
    }  
    else  
    {  
        System.out.println("Age is not greater than 18");  
    }  
}  
}
```

Output:



The screenshot shows an IDE with a project named 'Lab01'. The file 'P6.java' is open, containing the following code:

```
1 import java.util.Scanner;  
2  
3 public class P6  
4 {  
5     public static void main(String[] args) {  
6         int age;  
7         Scanner sc = new Scanner(System.in);  
8         age = sc.nextInt();  
9         if(age > 18)  
10        {  
11            System.out.println("Age is greater than 18");  
12        }  
13        else  
14        {  
15            System.out.println("Age is not greater than 18");  
16        }  
17    }  
18 }
```

The 'Run' window at the bottom shows the command: `"C:\Program Files\Java\jdk1.8.0_171\bin\java.exe" ...` and the output: `Age is greater than 18`. The status bar indicates the build completed successfully in 2 sec, 813 ms (a minute ago).

7)

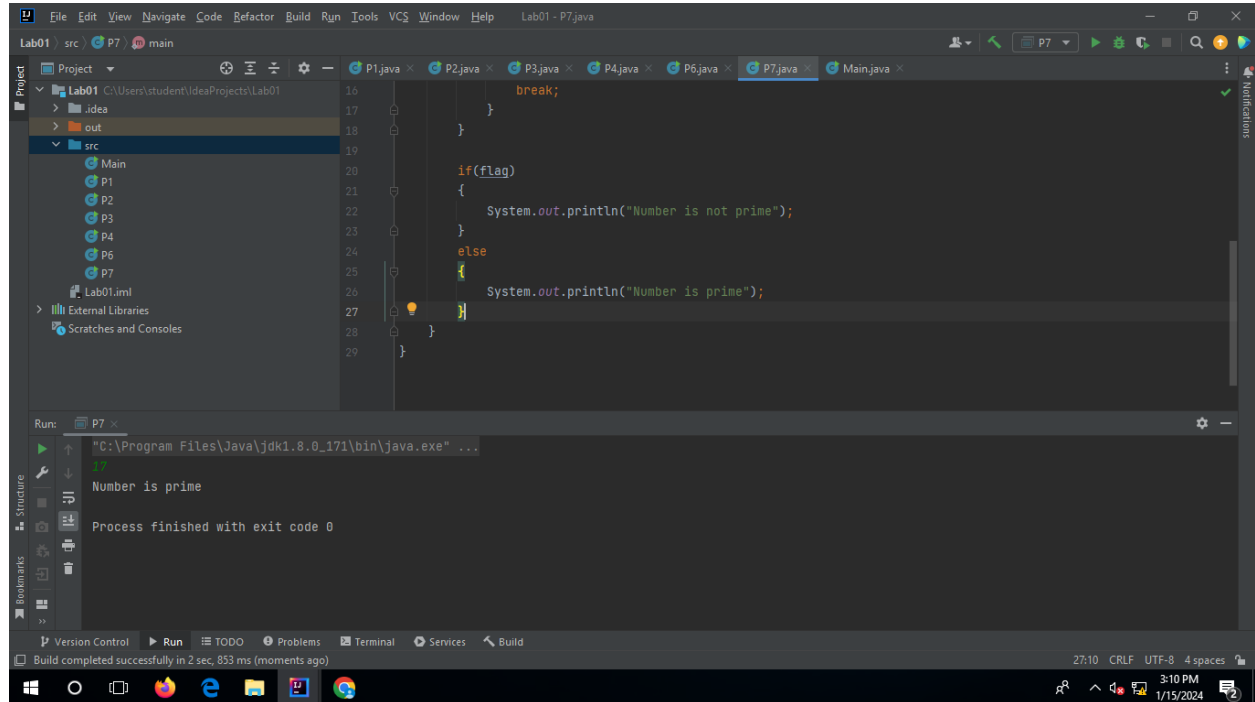
```
import java.util.Scanner;  
  
public class P7  
{  
    public static void main(String[] args) {  
        int a;  
        Scanner sc = new Scanner(System.in);  
        a = sc.nextInt();  
        boolean flag = false;  
  
        for(int i = 2;i<a;i++)  
        {  
            if(a%i==0)  
            {  
                flag = true;  
            }  
        }  
    }  
}
```

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```
        break;
    }
}

if(flag)
{
    System.out.println("Number is not prime");
}
else
{
    System.out.println("Number is prime");
}
}
```

Output:



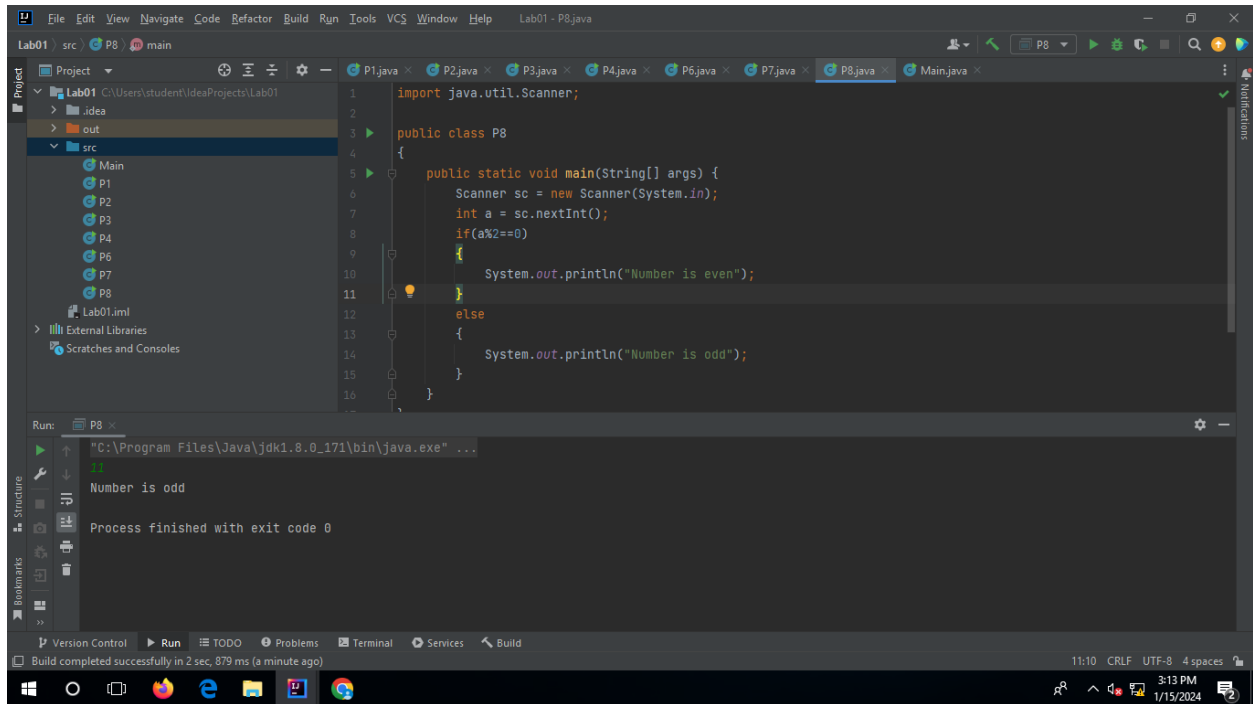
8)

```
import java.util.Scanner;

public class P8
{
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int a = sc.nextInt();
        if(a%2==0)
```

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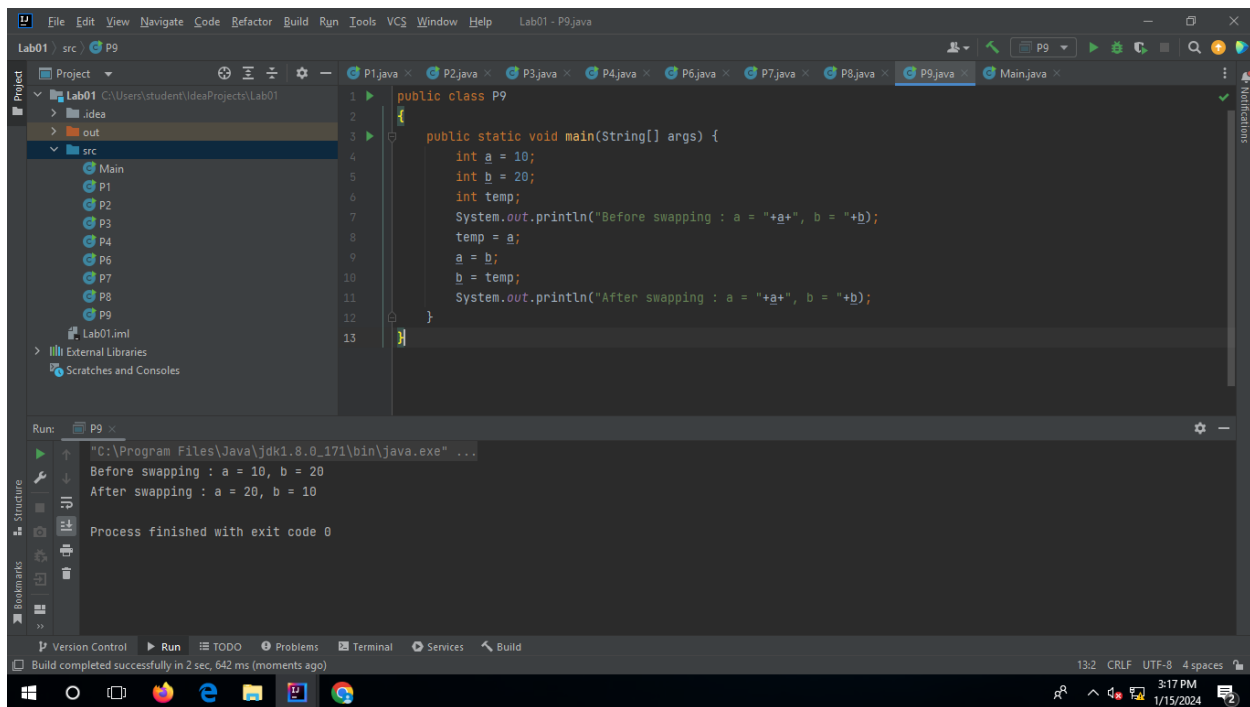
```
{  
    System.out.println("Number is even");  
}  
else  
{  
    System.out.println("Number is odd");  
}  
}
```



9)

```
public class P9  
{  
    public static void main(String[] args) {  
        int a = 10;  
        int b = 20;  
        int temp;  
        System.out.println("Before swapping : a = "+a+", b = "+b);  
        temp = a;  
        a = b;  
        b = temp;  
        System.out.println("After swapping : a = "+a+", b = "+b);  
    }  
}
```

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10)

```
import java.util.Scanner;

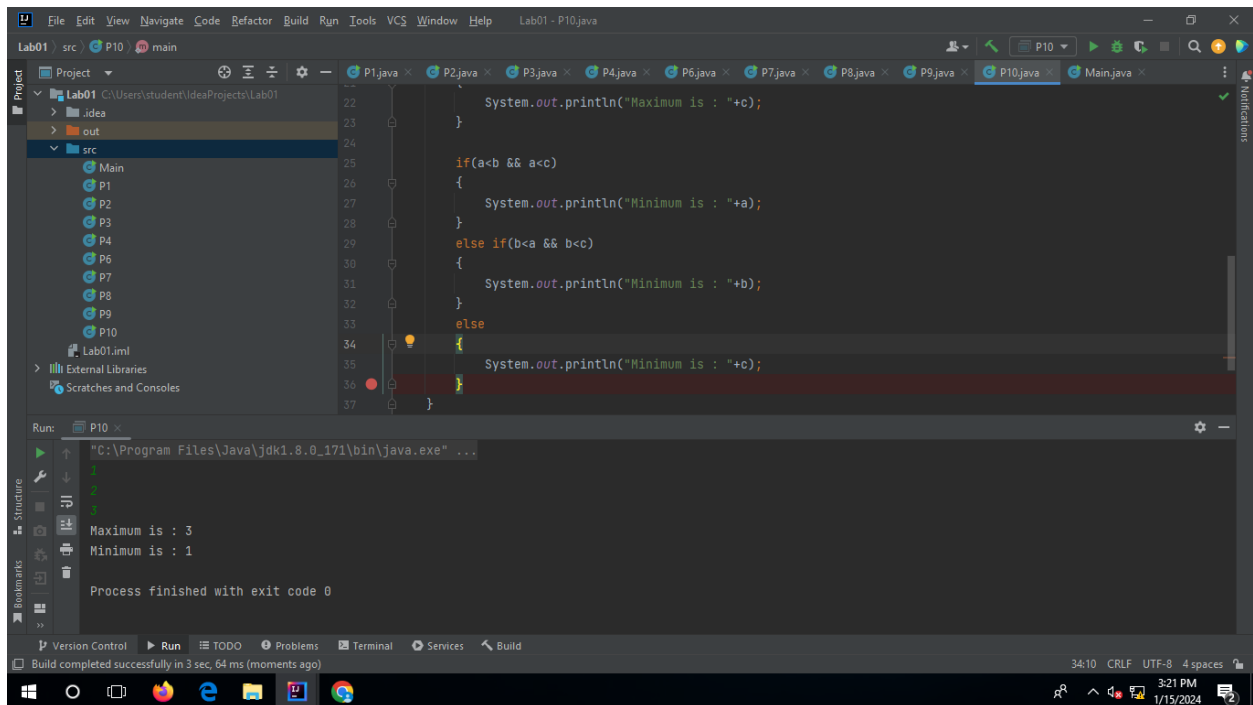
public class P10
{
    public static void main(String[] args) {
        int a,b,c;
        Scanner sc = new Scanner(System.in);
        a = sc.nextInt();
        b = sc.nextInt();
        c = sc.nextInt();

        if(a>b && a>c)
        {
            System.out.println("Maximum is : "+a);
        }
        else if(b>a && b>c)
        {
            System.out.println("Maximum is : "+b);
        }
        else
        {
            System.out.println("Maximum is : "+c);
        }

        if(a<b && a<c)
        {
            System.out.println("Minimum is : "+a);
        }
    }
}
```


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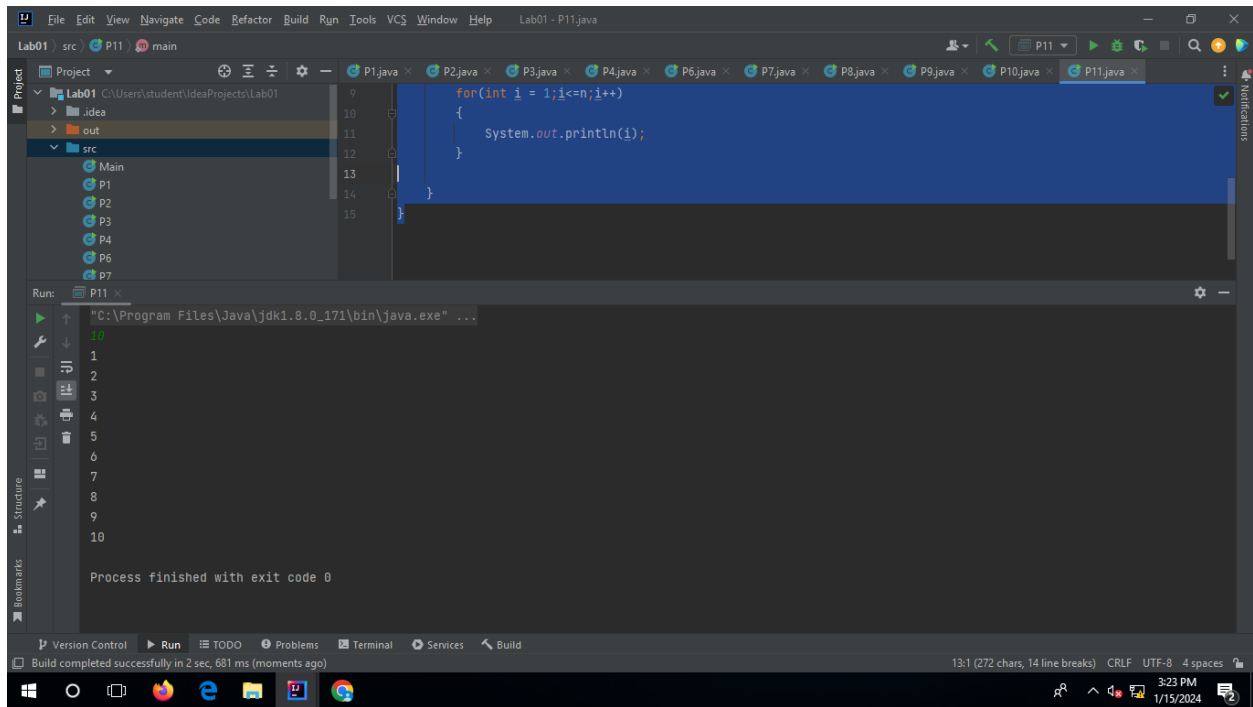
```
    }  
    else if (b < a && b < c)  
    {  
        System.out.println("Minimum is : "+b);  
    }  
    else  
    {  
        System.out.println("Minimum is : "+c);  
    }  
}  
}
```



11)

```
import java.util.Scanner;  
  
public class P11  
{  
    public static void main(String[] args) {  
        int n;  
        Scanner sc = new Scanner(System.in);  
        n = sc.nextInt();  
        for(int i = 1; i <= n; i++)  
        {  
            System.out.println(i);  
        }  
    }  
}
```

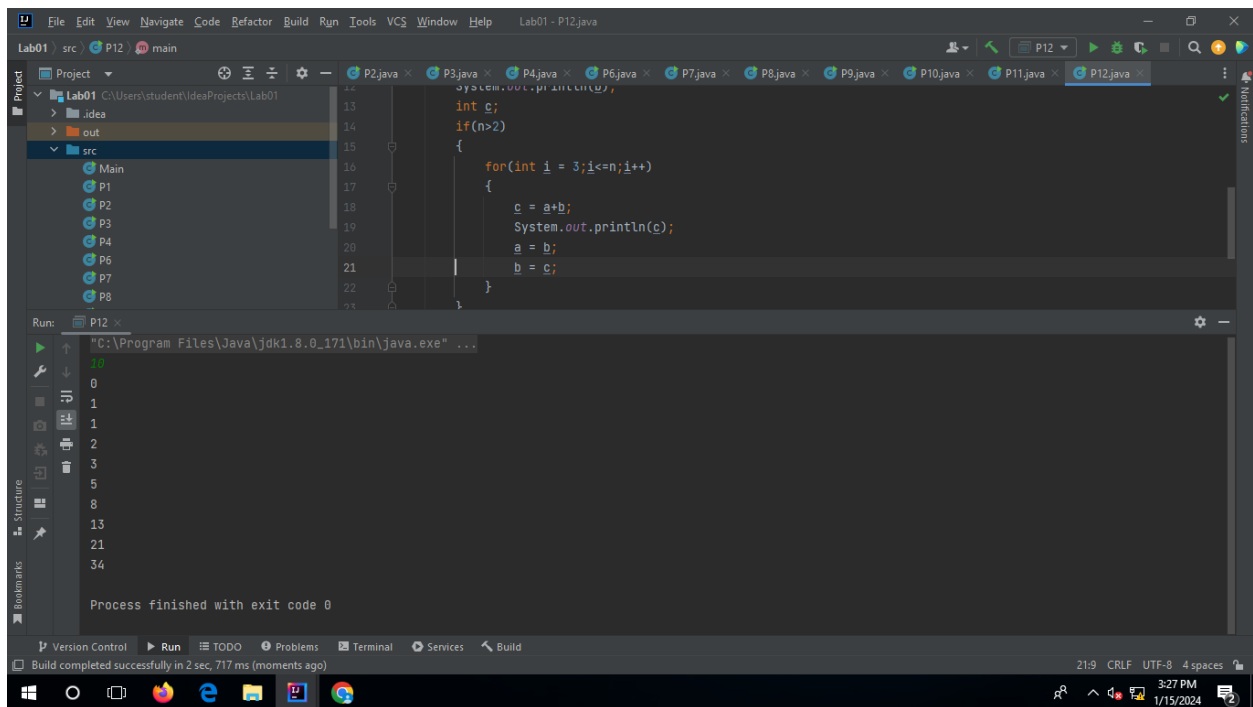
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12)

```
import java.util.Scanner;  
  
public class P12  
{  
    public static void main(String[] args) {  
        int n;  
        Scanner sc = new Scanner(System.in);  
        n = sc.nextInt();  
        int a = 0;  
        int b = 1;  
        System.out.println(a);  
        System.out.println(b);  
        int c;  
        if(n>2)  
        {  
            for(int i = 3; i <= n; i++)  
            {  
                c = a+b;  
                System.out.println(c);  
                a = b;  
                b = c;  
            }  
        }  
    }  
}
```

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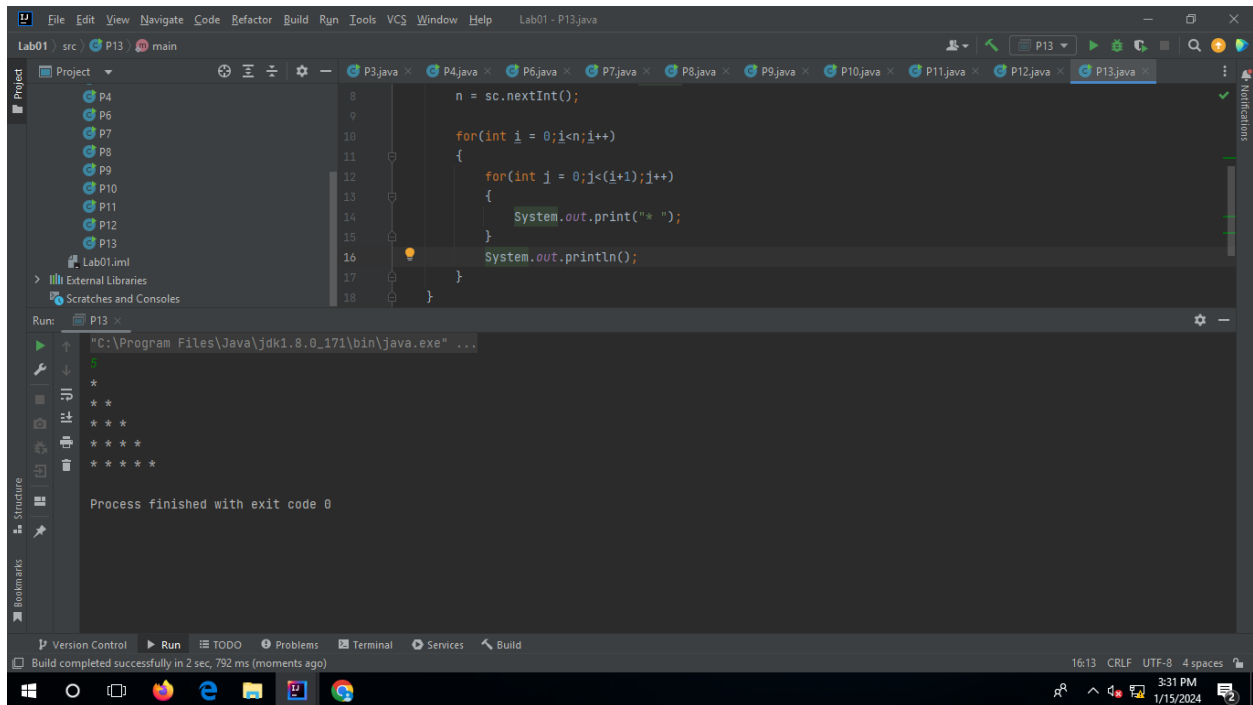
13)

```
import java.util.Scanner;

public class P13
{
    public static void main(String[] args) {
        int n;
        Scanner sc = new Scanner(System.in);
        n = sc.nextInt();

        for(int i = 0; i<n; i++)
        {
            for(int j = 0; j<(i+1); j++)
            {
                System.out.print("* ");
            }
            System.out.println();
        }
    }
}
```

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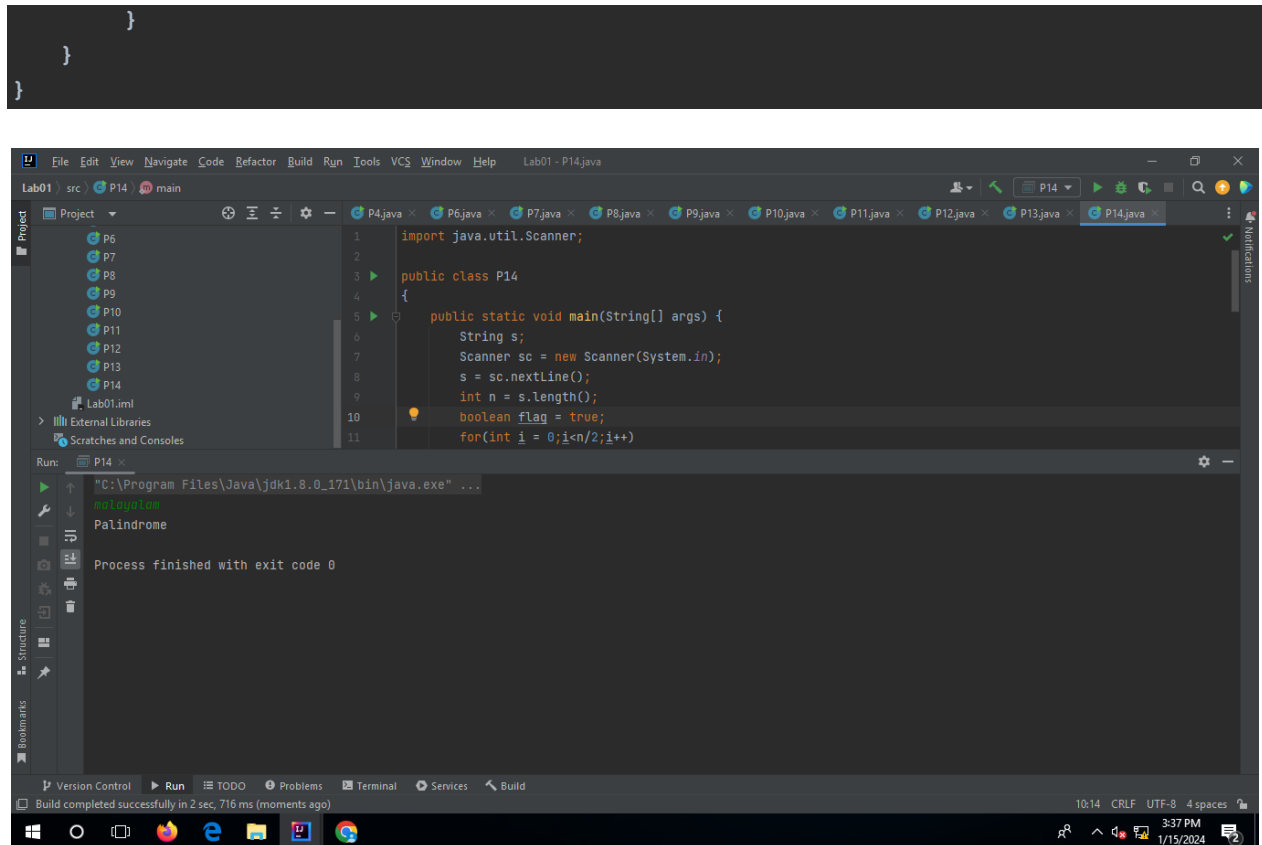
14)

```
import java.util.Scanner;

public class P14
{
    public static void main(String[] args) {
        String s;
        Scanner sc = new Scanner(System.in);
        s = sc.nextLine();
        int n = s.length();
        boolean flag = true;
        for(int i = 0; i < n/2; i++)
        {
            if(s.charAt(i) != s.charAt(n-1-i))
            {
                flag = false;
                break;
            }
        }

        if(flag)
        {
            System.out.println("Palindrome");
        }
        else
        {
            System.out.println("Not Palindrome");
        }
    }
}
```

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15)

```
import java.util.Scanner;

public class Main {

    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);

        System.out.print("Enter a number: ");
        int num = input.nextInt();

        int originalNum = num;
        int remainder, result = 0, n = 0;

        // Count the number of digits
        while (originalNum != 0) {
            originalNum /= 10;
            ++n;
        }

        originalNum = num;

        while (originalNum != 0) {
            remainder = originalNum % 10;
            result += Math.pow(remainder, n);
            originalNum /= 10;
        }
    }
}
```

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```
        if (result == num) {  
            System.out.println(num + " is an Armstrong number.");  
        } else {  
            System.out.println(num + " is not an Armstrong number.");  
        }  
    }  
}
```

