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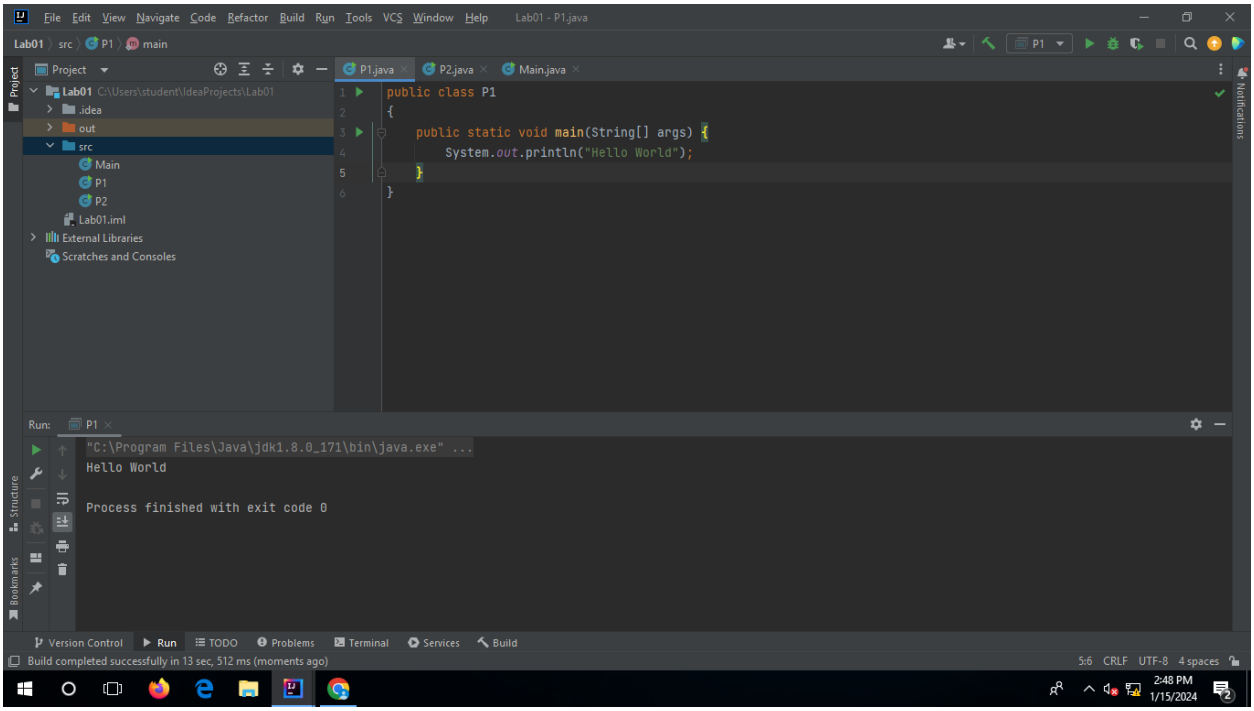
1)

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



2)

```java
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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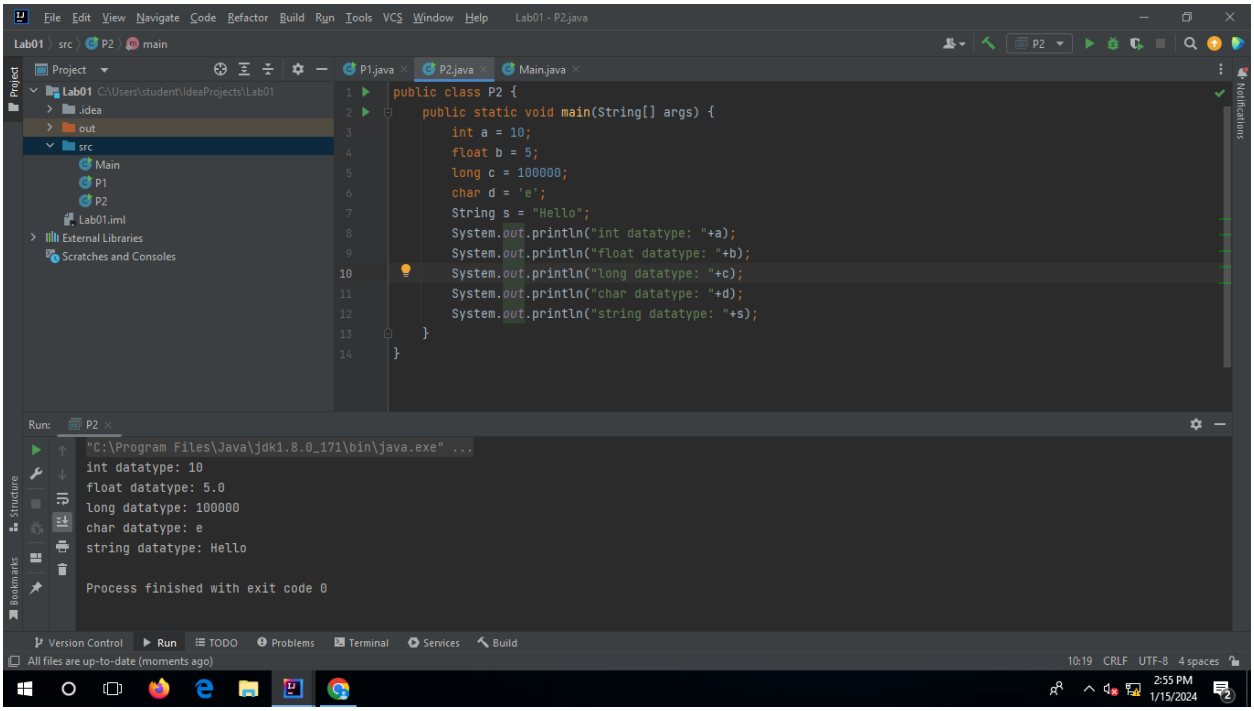
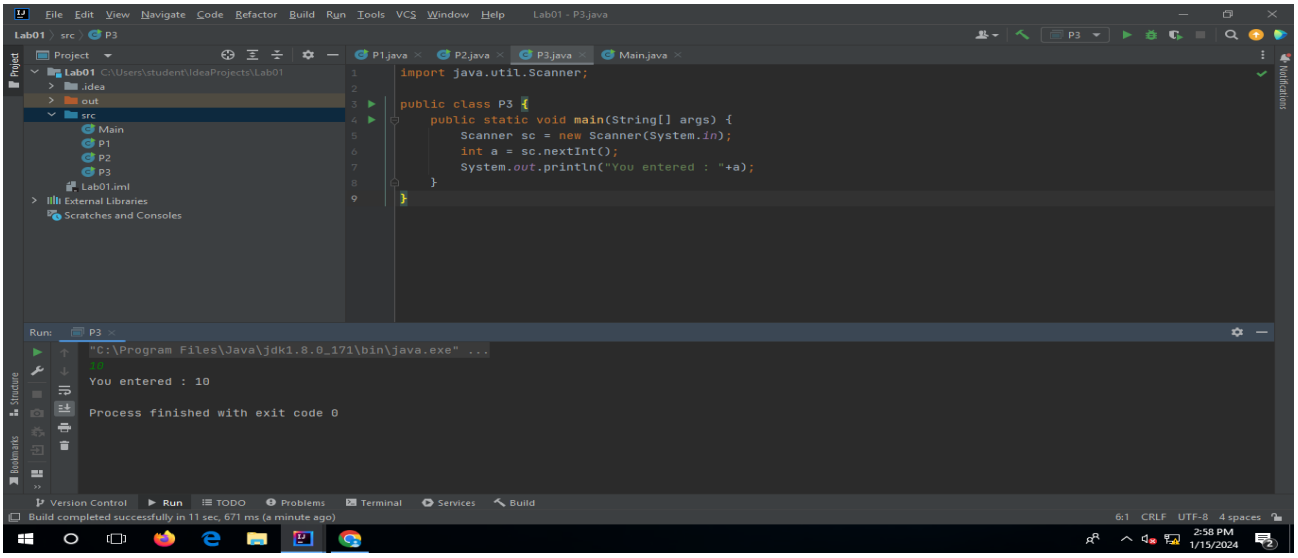


3)

```java
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);
    }
}
```



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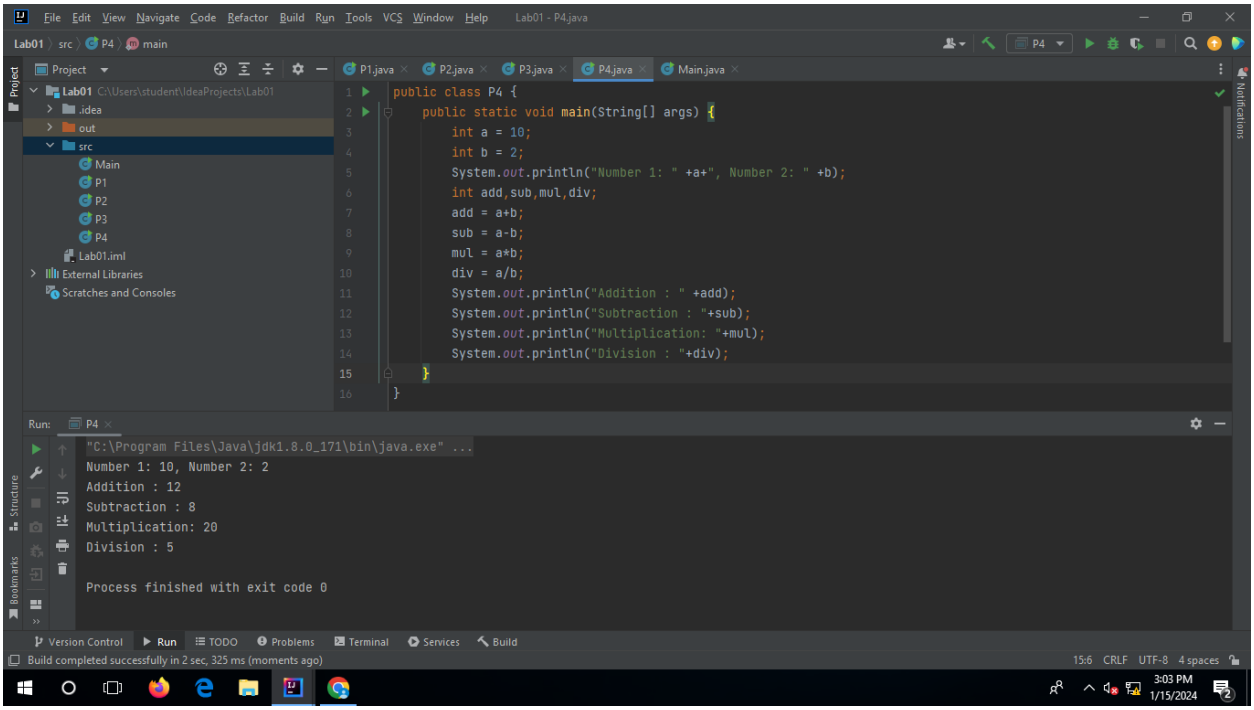
4)

```java
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);
    }
}
```



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5)

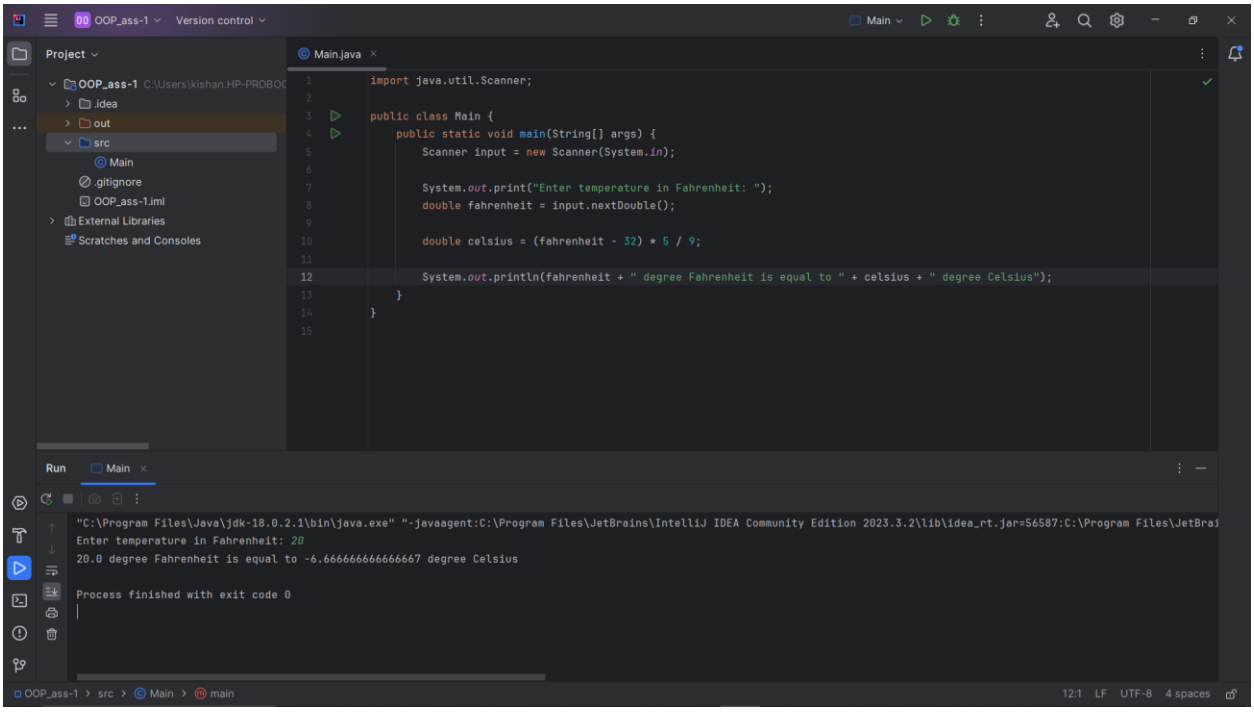
```java
import java.util.Scanner;

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)

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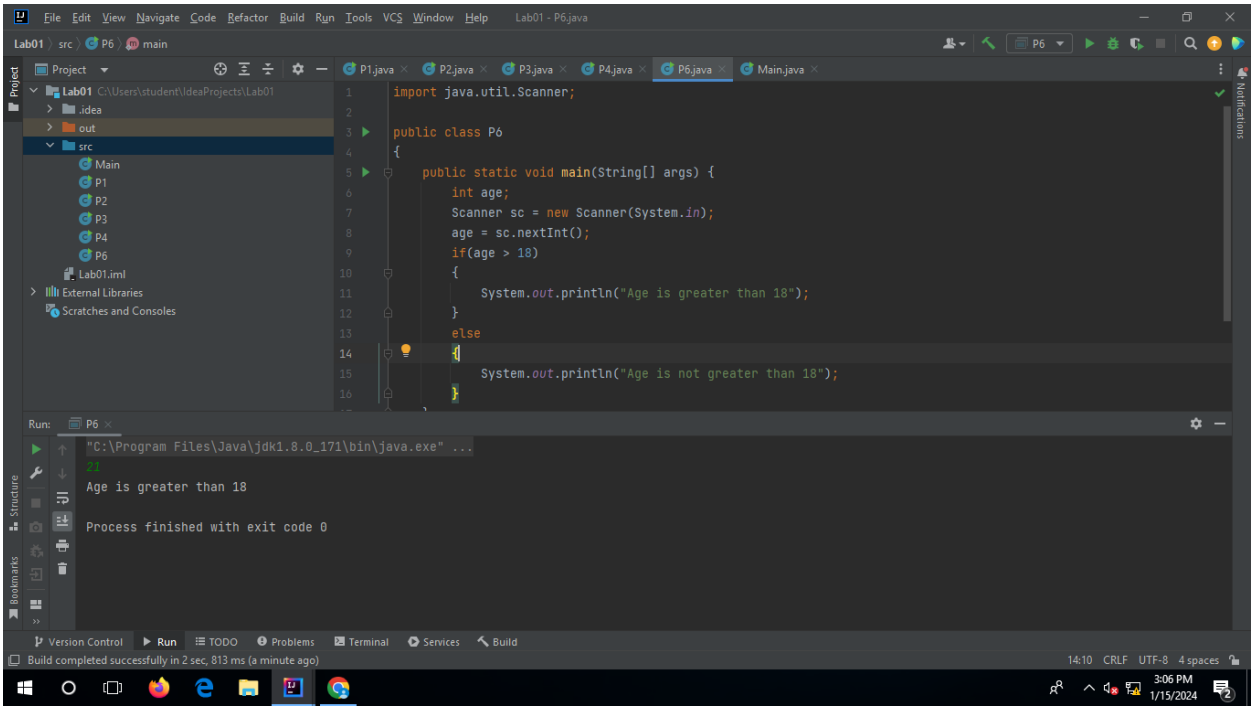
```
        }
        else
        {
            System.out.println("Age is not greater than 18");
        }
    }
}
```

Output:



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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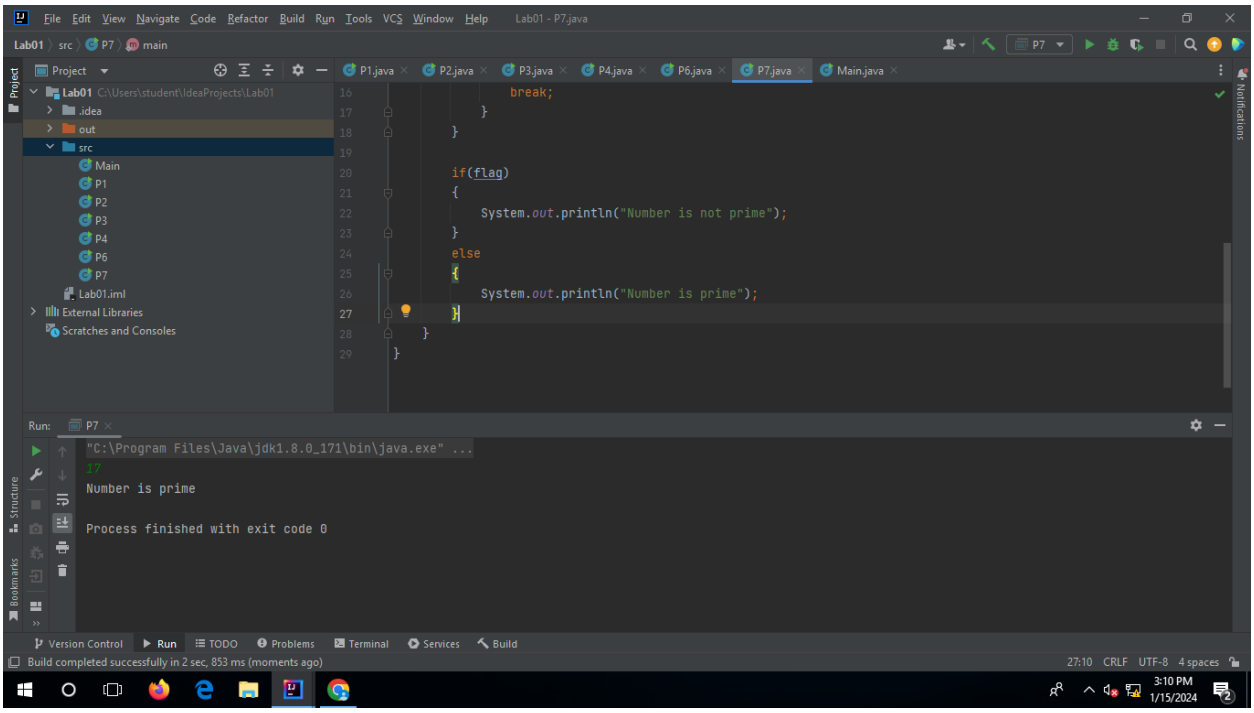
```
                break;
            }
        }

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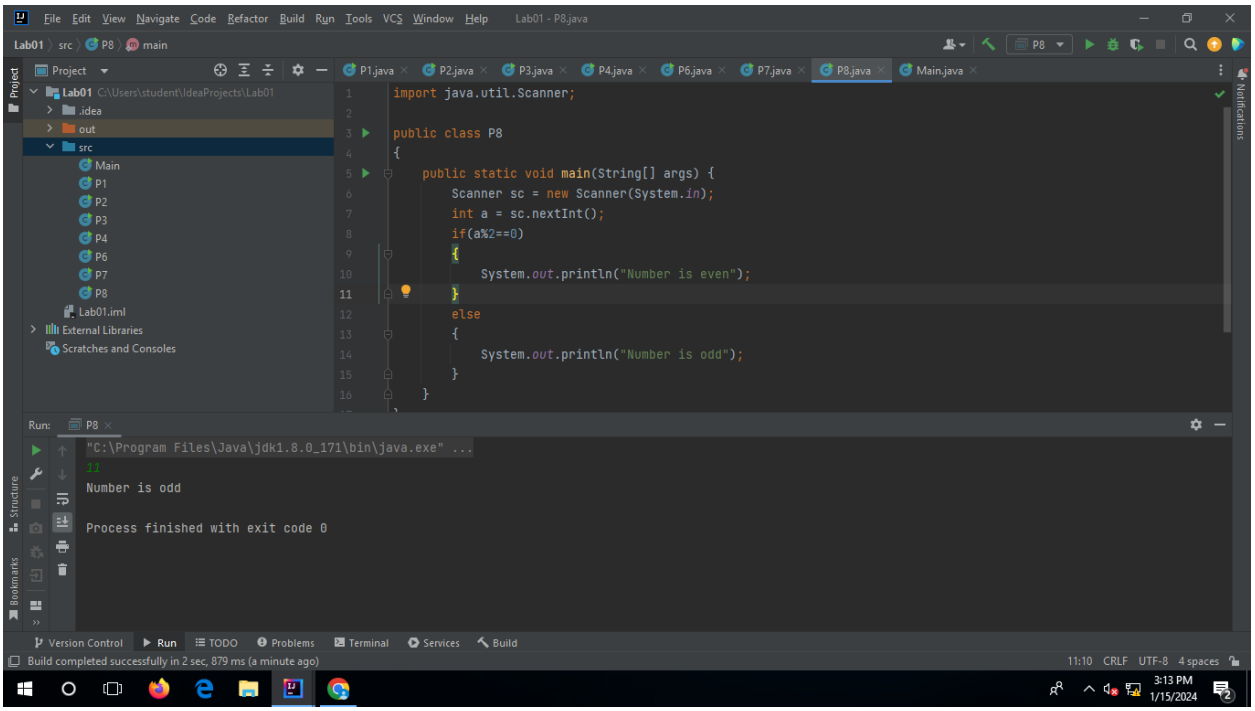
```
        {
            System.out.println("Number is even");
        }
        else
        {
            System.out.println("Number is odd");
        }
    }
}
```



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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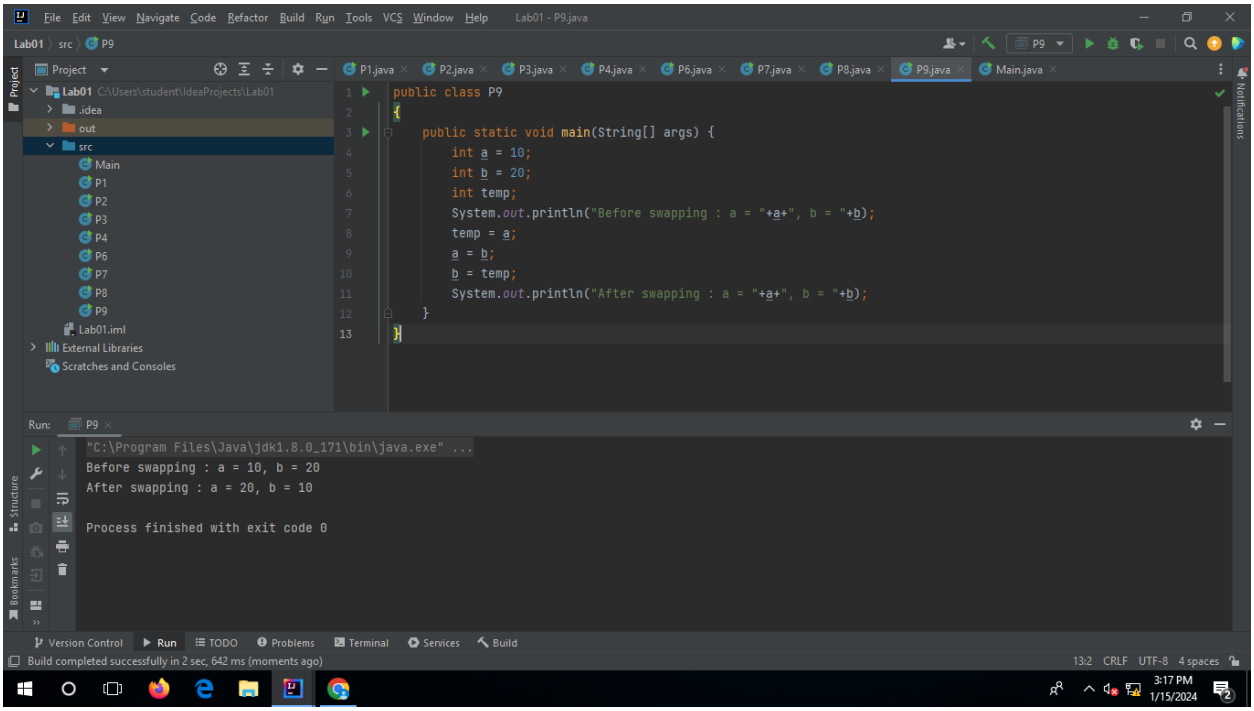

10)

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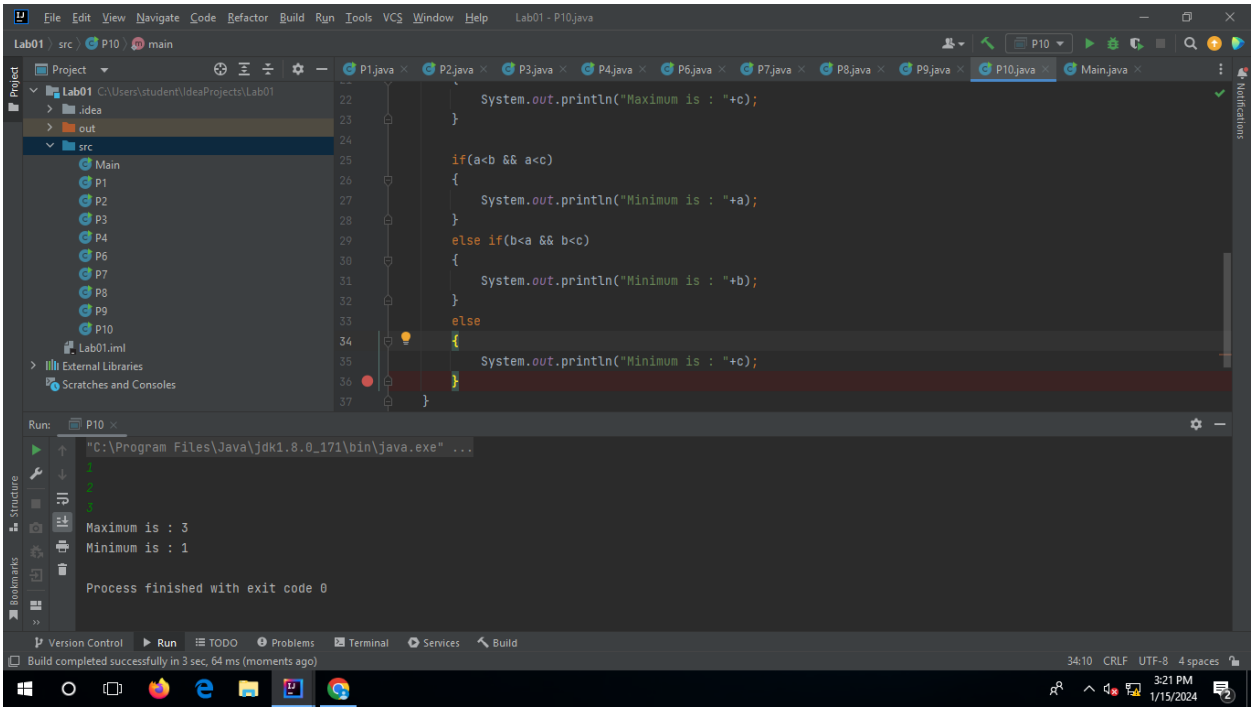
```
        }
        else if(b<a && b<c)
        {
            System.out.println("Minimum is : "+b);
        }
        else
        {
            System.out.println("Minimum is : "+c);
        }
    }
}
```



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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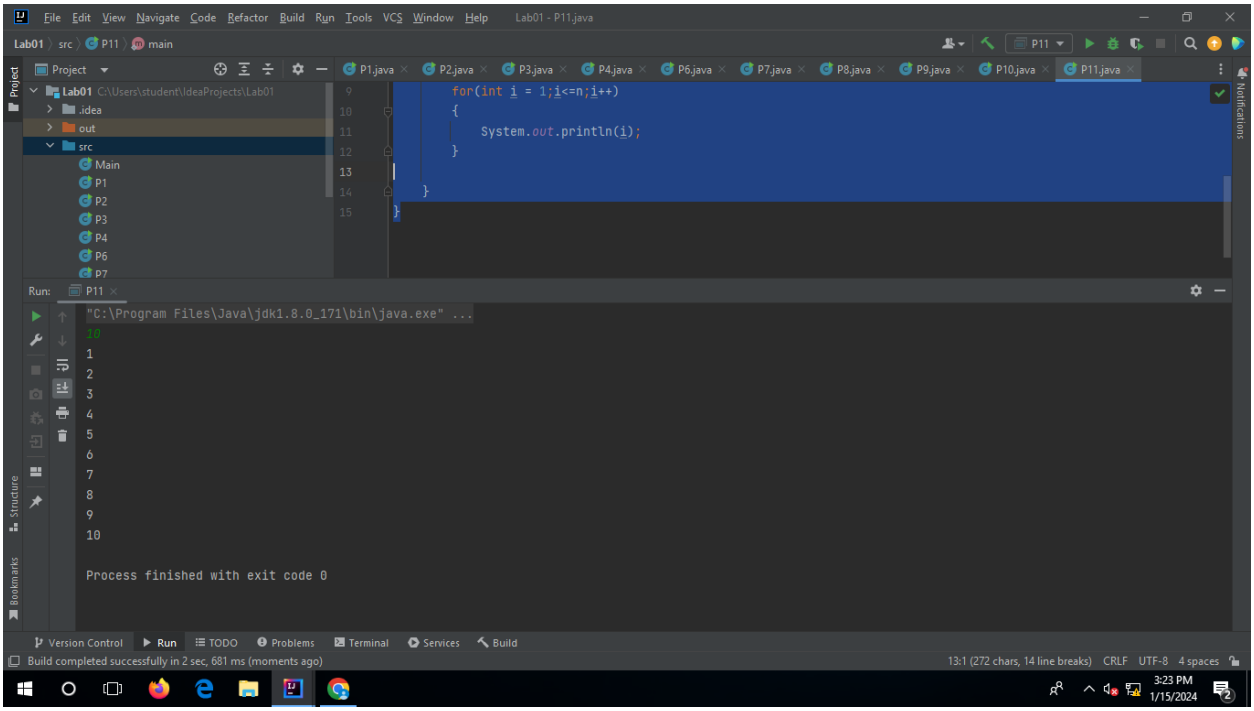

12)

```java
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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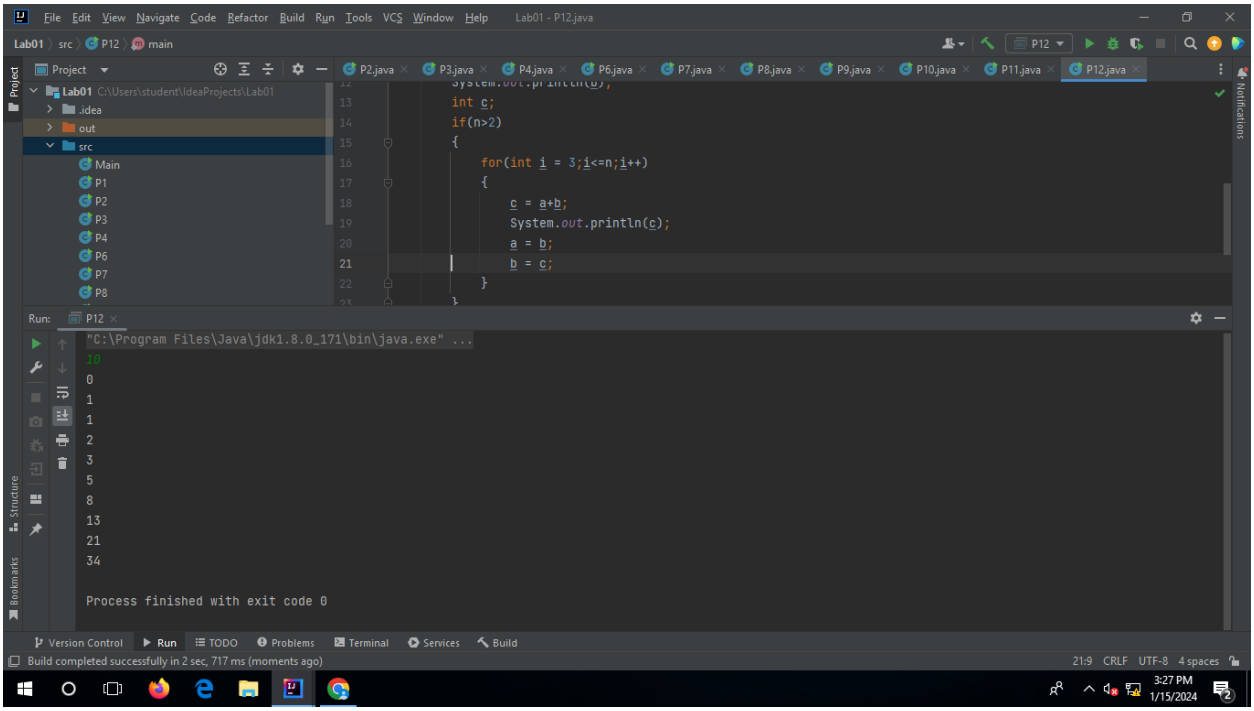

13)

```java
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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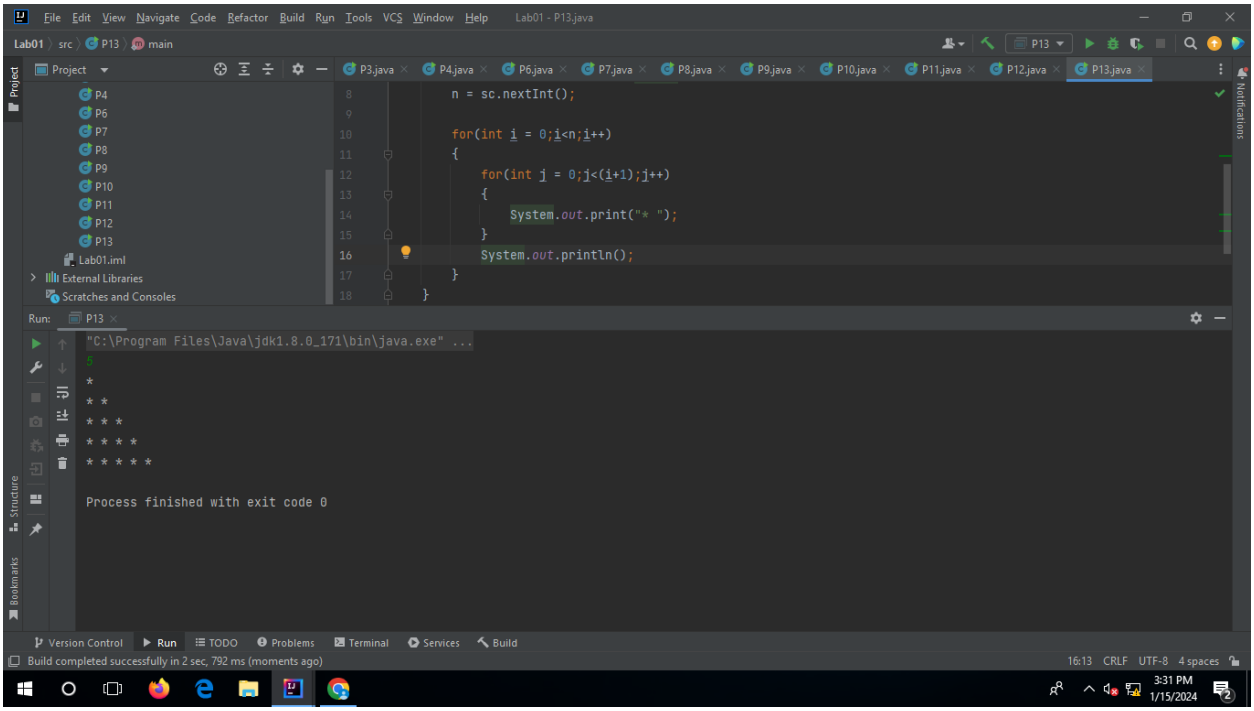

14)

```java
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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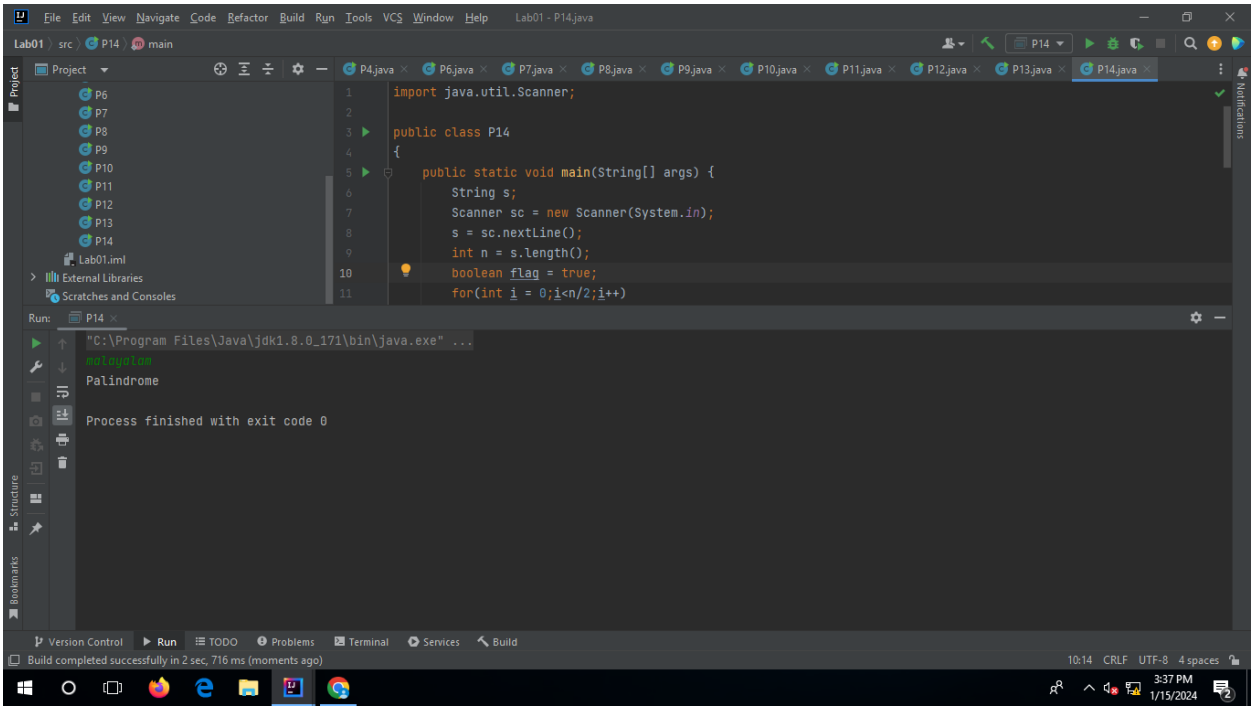
```
        }
    }
}
```



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.");
        }
    }
}
```