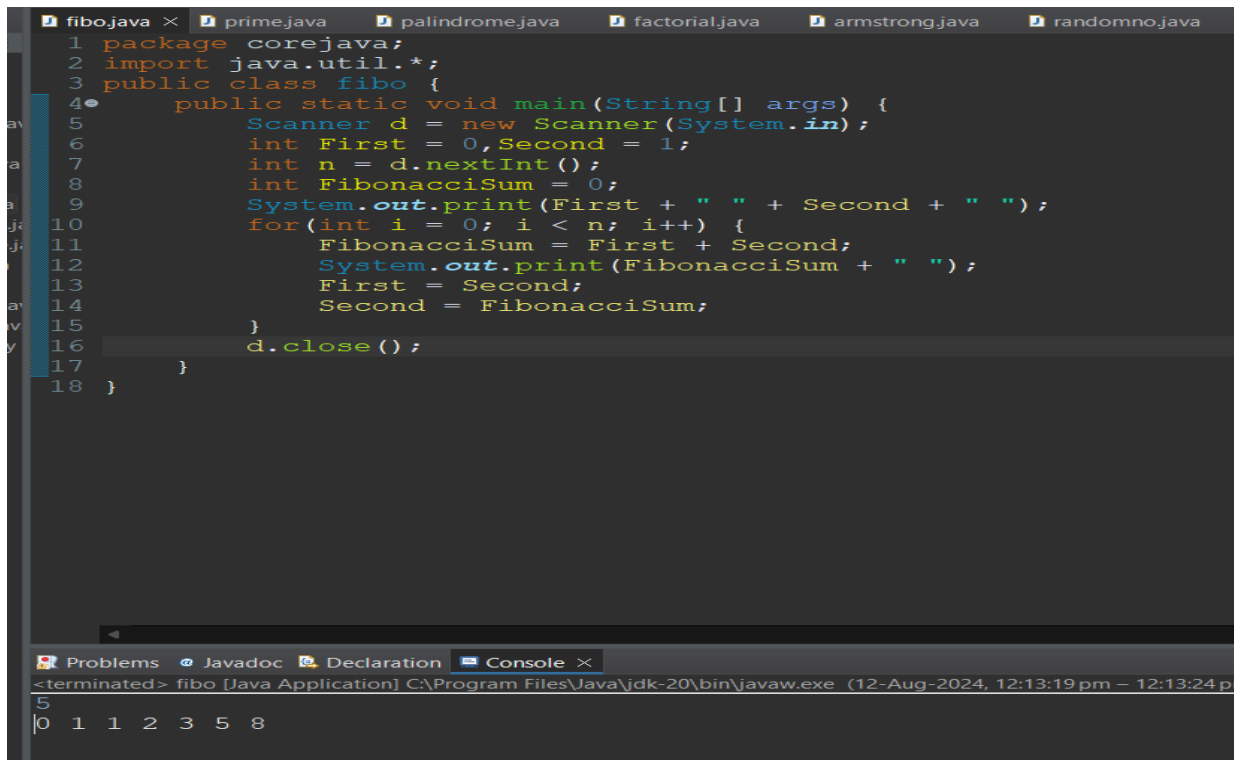


Lab Assessment

1. Fibonacci Series in Java



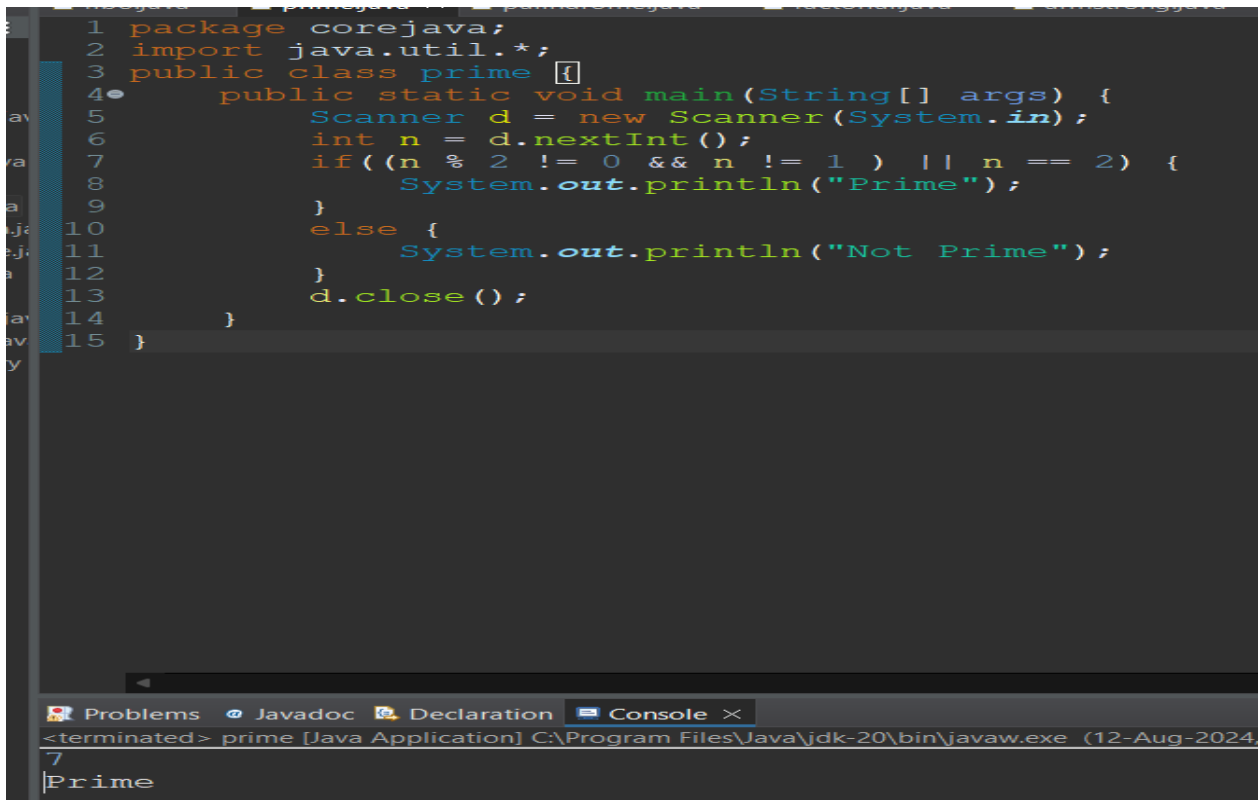
```
1 package corejava;
2 import java.util.*;
3 public class fibo {
4     public static void main(String[] args) {
5         Scanner d = new Scanner(System.in);
6         int First = 0, Second = 1;
7         int n = d.nextInt();
8         int FibonacciSum = 0;
9         System.out.print(First + " " + Second + " ");
10        for(int i = 0; i < n; i++) {
11            FibonacciSum = First + Second;
12            System.out.print(FibonacciSum + " ");
13            First = Second;
14            Second = FibonacciSum;
15        }
16        d.close();
17    }
18 }
```

Problems Javadoc Declaration Console X

<terminated> fibo [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (12-Aug-2024, 12:13:19 pm - 12:13:24 p

5
| 0 1 1 2 3 5 8

2. Prime Number Program in Java



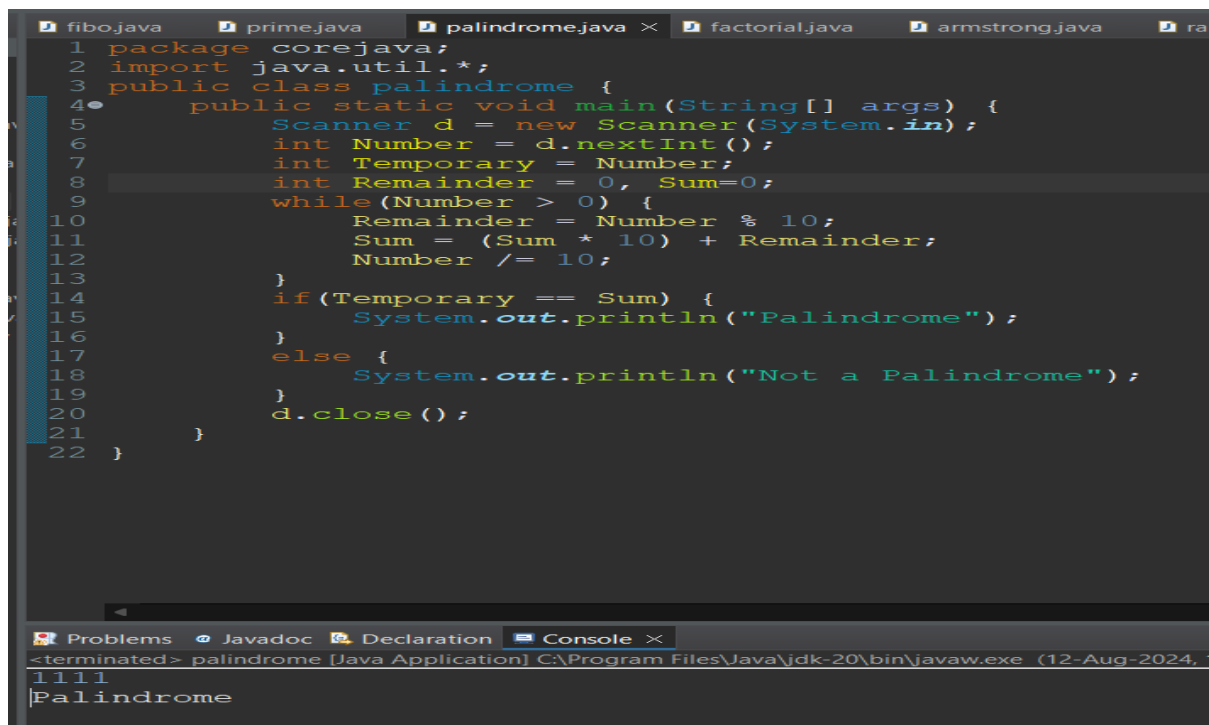
```
1 package corejava;
2 import java.util.*;
3 public class prime {
4     public static void main(String[] args) {
5         Scanner d = new Scanner(System.in);
6         int n = d.nextInt();
7         if((n % 2 != 0 && n != 1) || n == 2) {
8             System.out.println("Prime");
9         }
10        else {
11            System.out.println("Not Prime");
12        }
13        d.close();
14    }
15 }
```

Problems Javadoc Declaration Console X

<terminated> prime [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (12-Aug-2024,

7
| Prime

3. Palindrome Program in Java



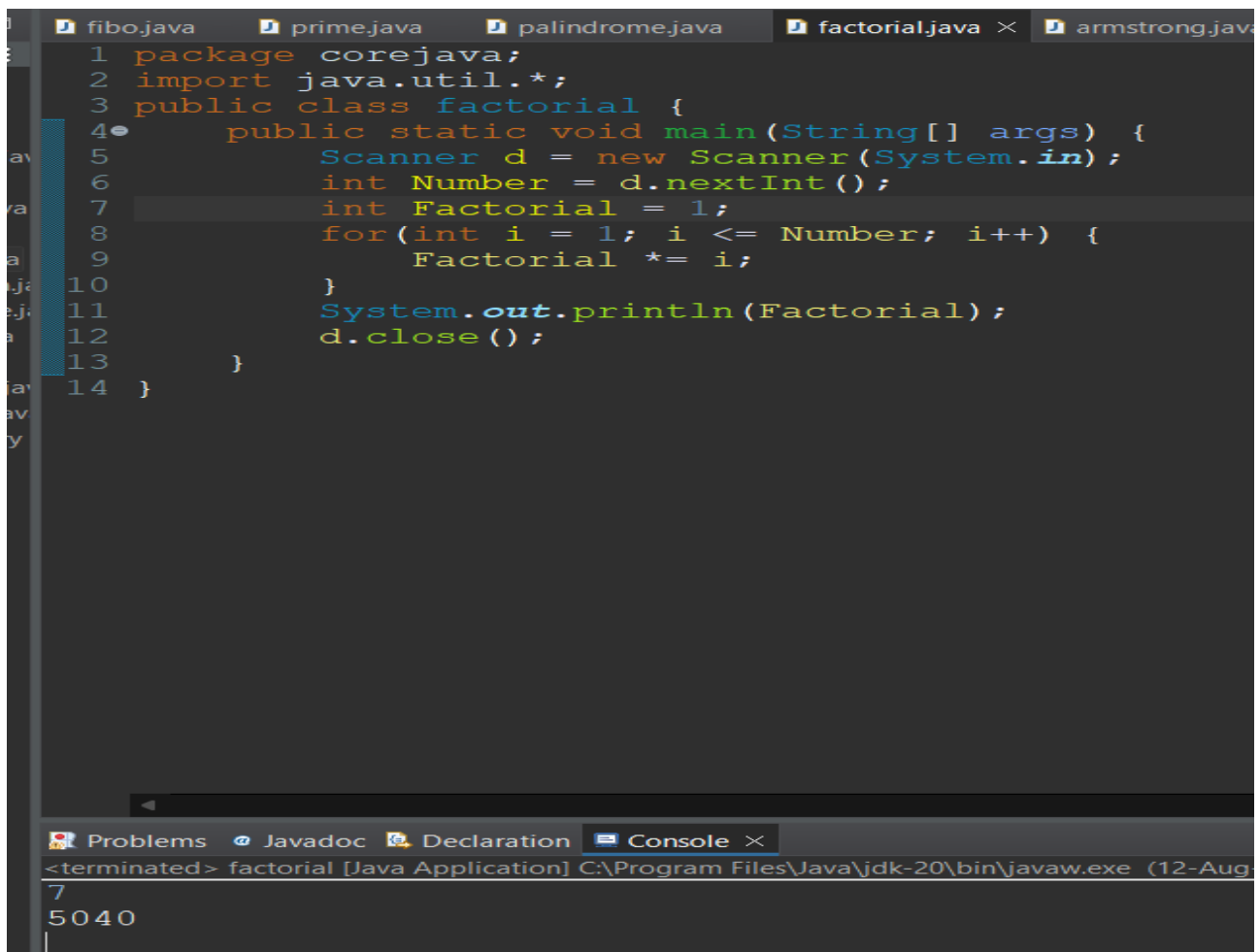
```
1 package corejava;
2 import java.util.*;
3 public class palindrome {
4     public static void main(String[] args) {
5         Scanner d = new Scanner(System.in);
6         int Number = d.nextInt();
7         int Temporary = Number;
8         int Remainder = 0, Sum=0;
9         while (Number > 0) {
10             Remainder = Number % 10;
11             Sum = (Sum * 10) + Remainder;
12             Number /= 10;
13         }
14         if (Temporary == Sum) {
15             System.out.println("Palindrome");
16         }
17         else {
18             System.out.println("Not a Palindrome");
19         }
20         d.close();
21     }
22 }
```

Problems Javadoc Declaration Console X

<terminated> palindrome [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (12-Aug-2024, 11:11)

1111
Palindrome

4. Factorial Program in Java



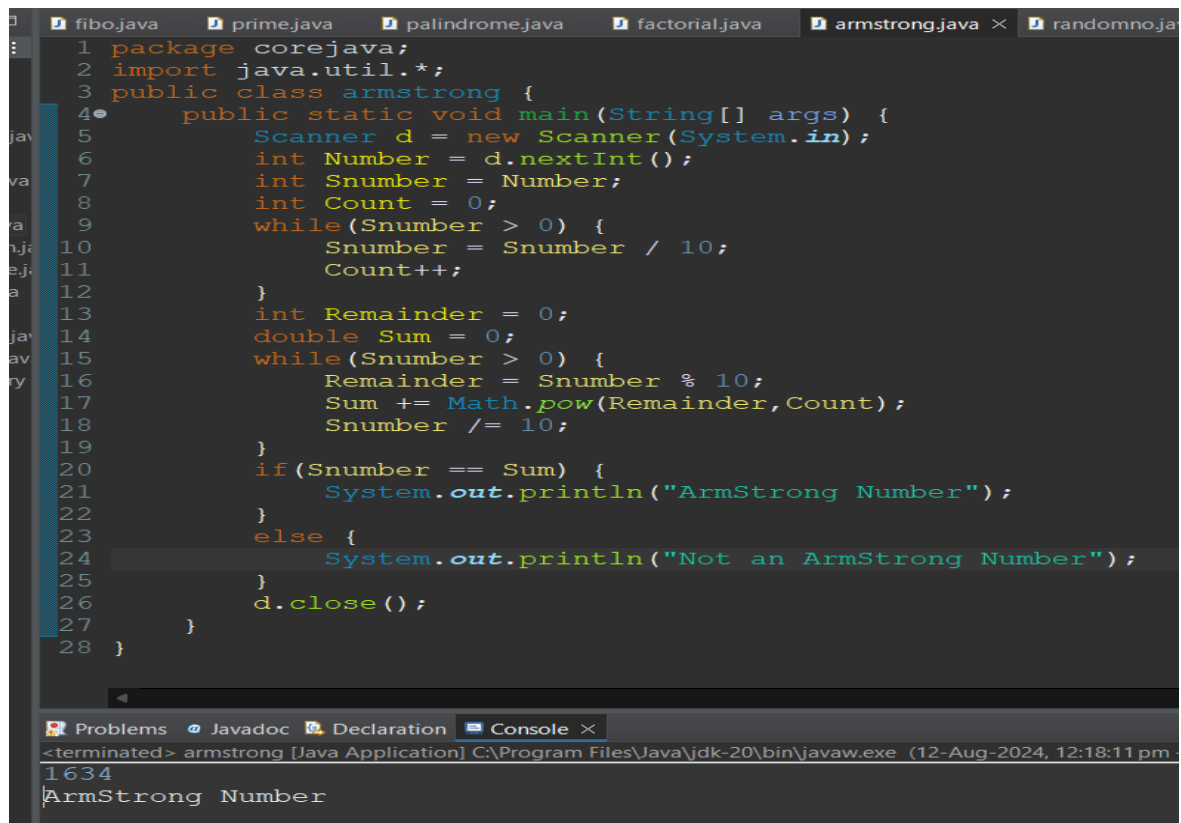
```
1 package corejava;
2 import java.util.*;
3 public class factorial {
4     public static void main(String[] args) {
5         Scanner d = new Scanner(System.in);
6         int Number = d.nextInt();
7         int Factorial = 1;
8         for (int i = 1; i <= Number; i++) {
9             Factorial *= i;
10        }
11        System.out.println(Factorial);
12        d.close();
13    }
14 }
```

Problems Javadoc Declaration Console X

<terminated> factorial [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (12-Aug-2024, 11:11)

7
5040

5. Armstrong Number in Java



```
1 package corejava;
2 import java.util.*;
3 public class armstrong {
4     public static void main(String[] args) {
5         Scanner d = new Scanner(System.in);
6         int Number = d.nextInt();
7         int Snumber = Number;
8         int Count = 0;
9         while(Snumber > 0) {
10             Snumber = Snumber / 10;
11             Count++;
12         }
13         int Remainder = 0;
14         double Sum = 0;
15         while(Snumber > 0) {
16             Remainder = Snumber % 10;
17             Sum += Math.pow(Remainder, Count);
18             Snumber /= 10;
19         }
20         if(Snumber == Sum) {
21             System.out.println("ArmStrong Number");
22         }
23         else {
24             System.out.println("Not an ArmStrong Number");
25         }
26         d.close();
27     }
28 }
```

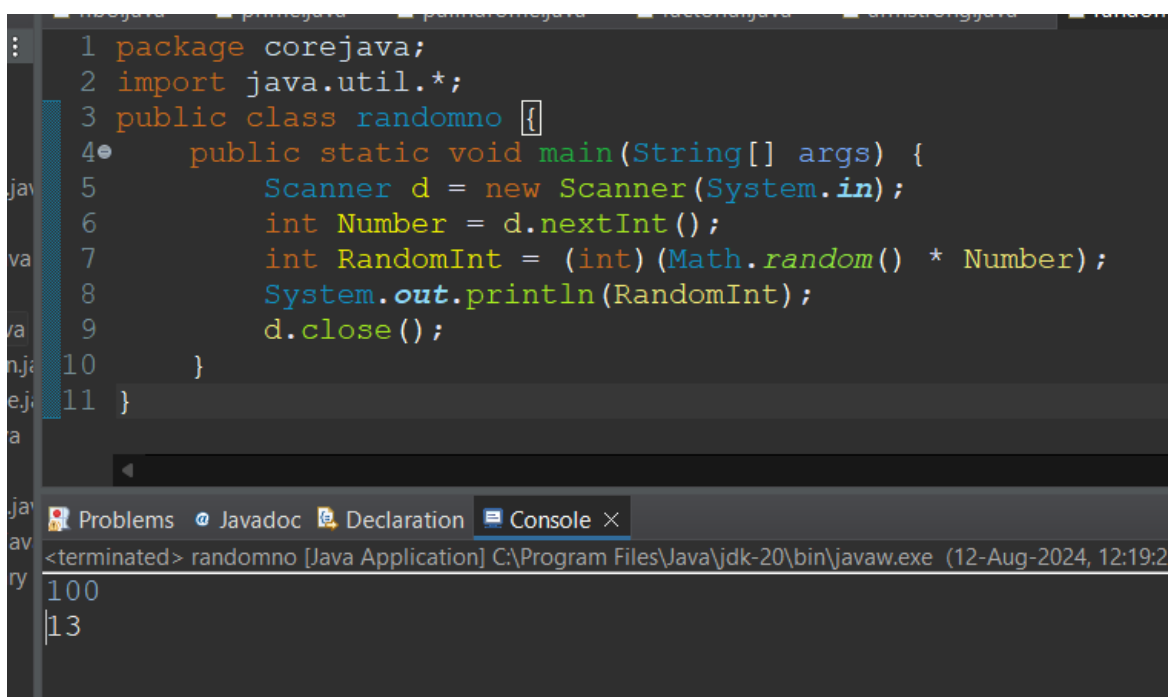
Problems Javadoc Declaration Console ×

<terminated> armstrong [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (12-Aug-2024, 12:18:11 pm)

1634

ArmStrong Number

6. How to Generate Random Number in Java



```
1 package corejava;
2 import java.util.*;
3 public class randomno {
4     public static void main(String[] args) {
5         Scanner d = new Scanner(System.in);
6         int Number = d.nextInt();
7         int RandomInt = (int) (Math.random() * Number);
8         System.out.println(RandomInt);
9         d.close();
10     }
11 }
```

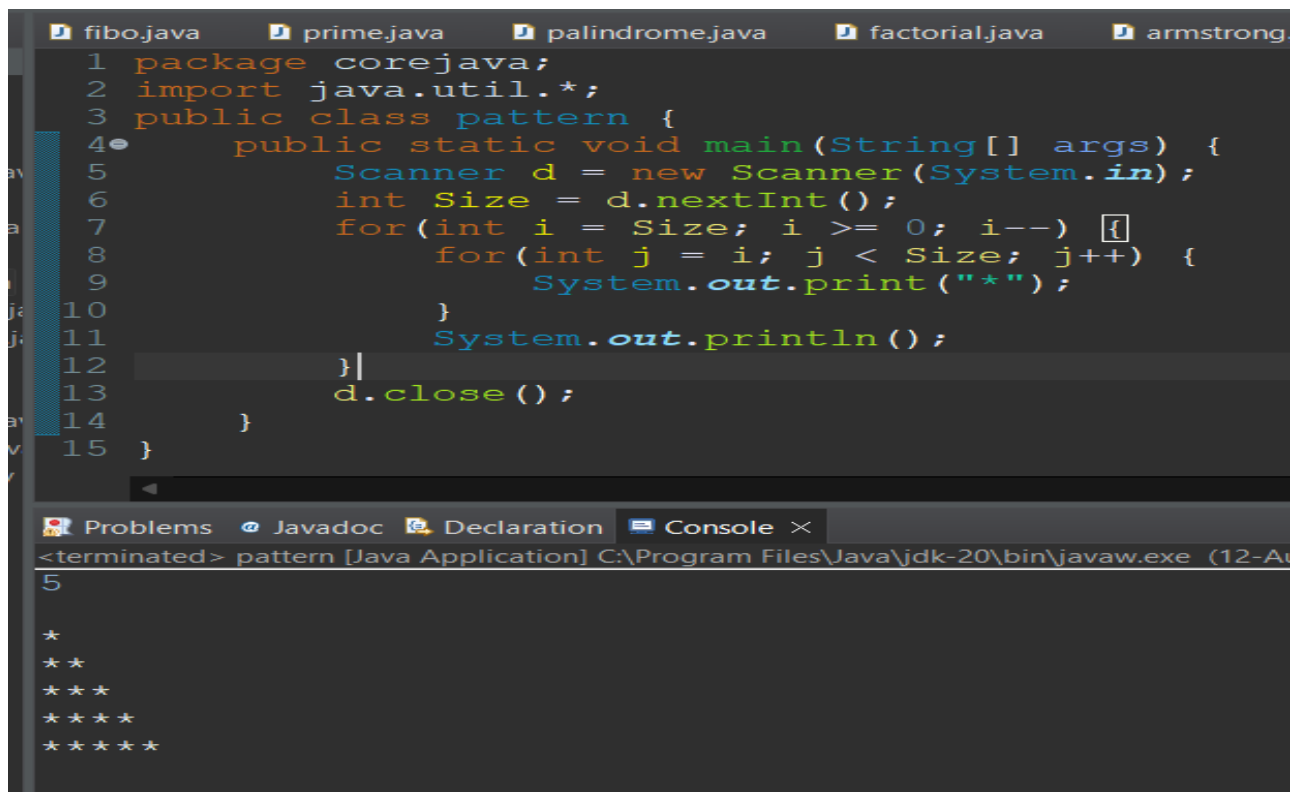
Problems Javadoc Declaration Console ×

<terminated> randomno [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (12-Aug-2024, 12:19:20)

100

13

7. How to Print Pattern in Java



```
1 package corejava;
2 import java.util.*;
3 public class pattern {
4     public static void main(String[] args) {
5         Scanner d = new Scanner(System.in);
6         int Size = d.nextInt();
7         for(int i = Size; i >= 0; i--) {
8             for(int j = i; j < Size; j++) {
9                 System.out.print("*");
10            }
11            System.out.println();
12        }
13        d.close();
14    }
15 }
```

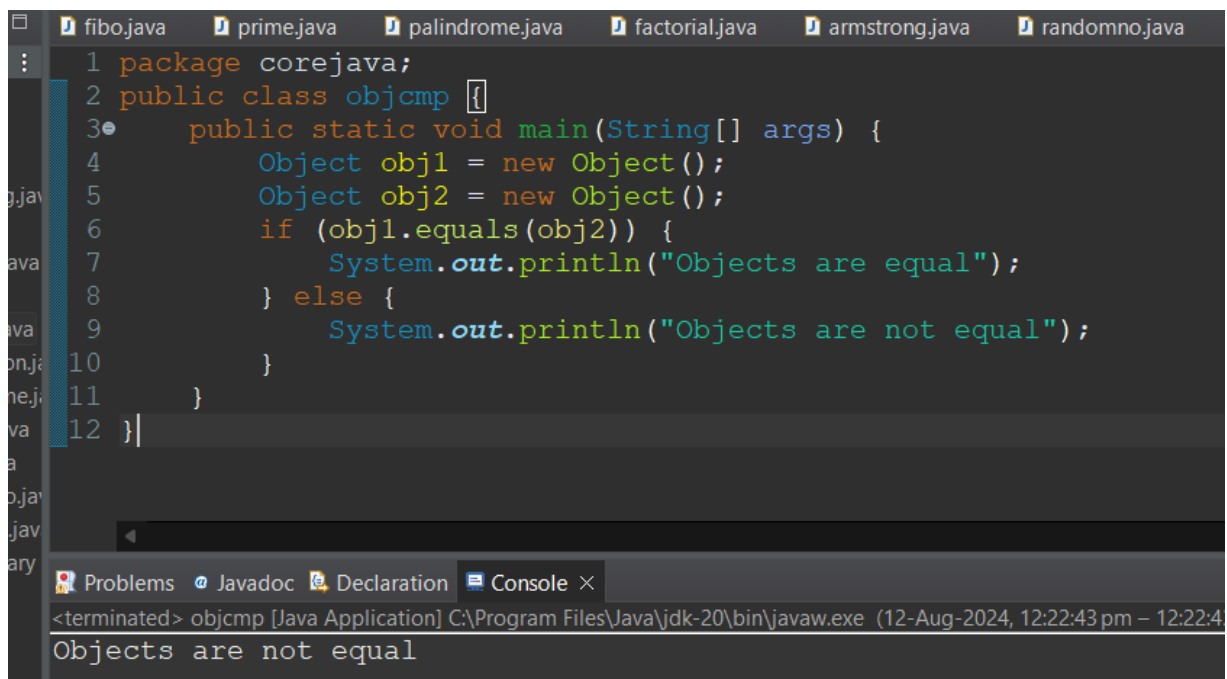
Problems Javadoc Declaration Console ×

<terminated> pattern [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (12-Aug-2024, 12:22:43 pm - 12:22:43 pm)

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*
**

8. How to Compare Two Objects in Java



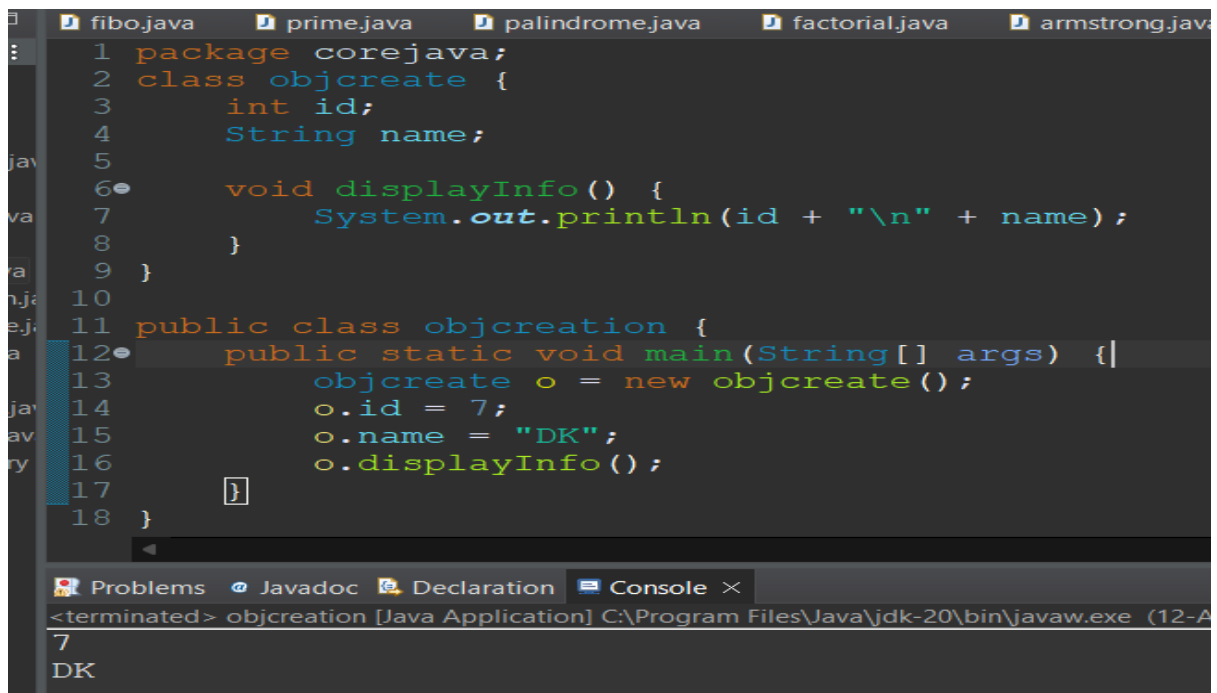
```
1 package corejava;
2 public class objcmp {
3     public static void main(String[] args) {
4         Object obj1 = new Object();
5         Object obj2 = new Object();
6         if (obj1.equals(obj2)) {
7             System.out.println("Objects are equal");
8         } else {
9             System.out.println("Objects are not equal");
10        }
11    }
12 }
```

Problems Javadoc Declaration Console ×

<terminated> objcmp [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (12-Aug-2024, 12:22:43 pm - 12:22:43 pm)

Objects are not equal

9. How to Create Object in Java



```
1 package corejava;
2 class objcreate {
3     int id;
4     String name;
5
6     void displayInfo() {
7         System.out.println(id + "\n" + name);
8     }
9 }
10
11 public class objcreation {
12     public static void main(String[] args) {
13         objcreate o = new objcreate();
14         o.id = 7;
15         o.name = "DK";
16         o.displayInfo();
17     }
18 }
```

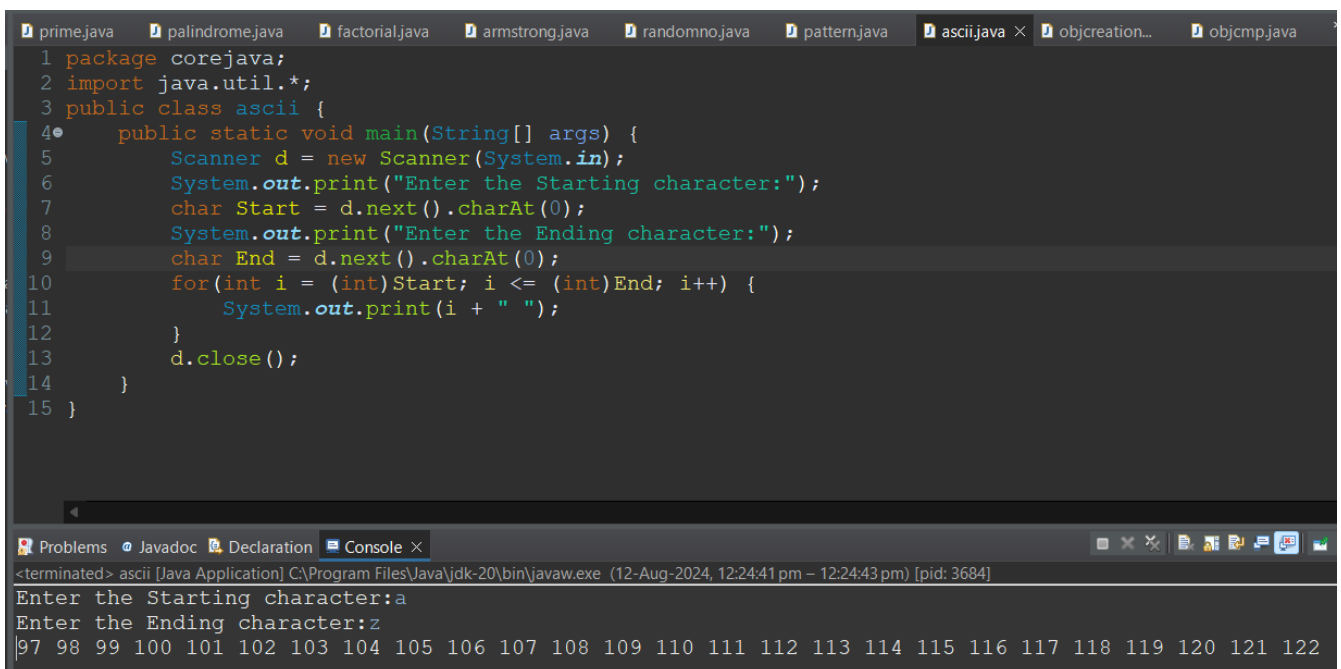
Problems Javadoc Declaration Console

<terminated> objcreation [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (12-A

7

DK

10. How to Print ASCII Value in Java



```
1 package corejava;
2 import java.util.*;
3 public class ascii {
4     public static void main(String[] args) {
5         Scanner d = new Scanner(System.in);
6         System.out.print("Enter the Starting character:");
7         char Start = d.next().charAt(0);
8         System.out.print("Enter the Ending character:");
9         char End = d.next().charAt(0);
10        for(int i = (int)Start; i <= (int)End; i++) {
11            System.out.print(i + " ");
12        }
13        d.close();
14    }
15 }
```

Problems Javadoc Declaration Console

<terminated> ascii [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (12-Aug-2024, 12:24:41 pm – 12:24:43 pm) [pid: 3684]

Enter the Starting character:a

Enter the Ending character:z

97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122