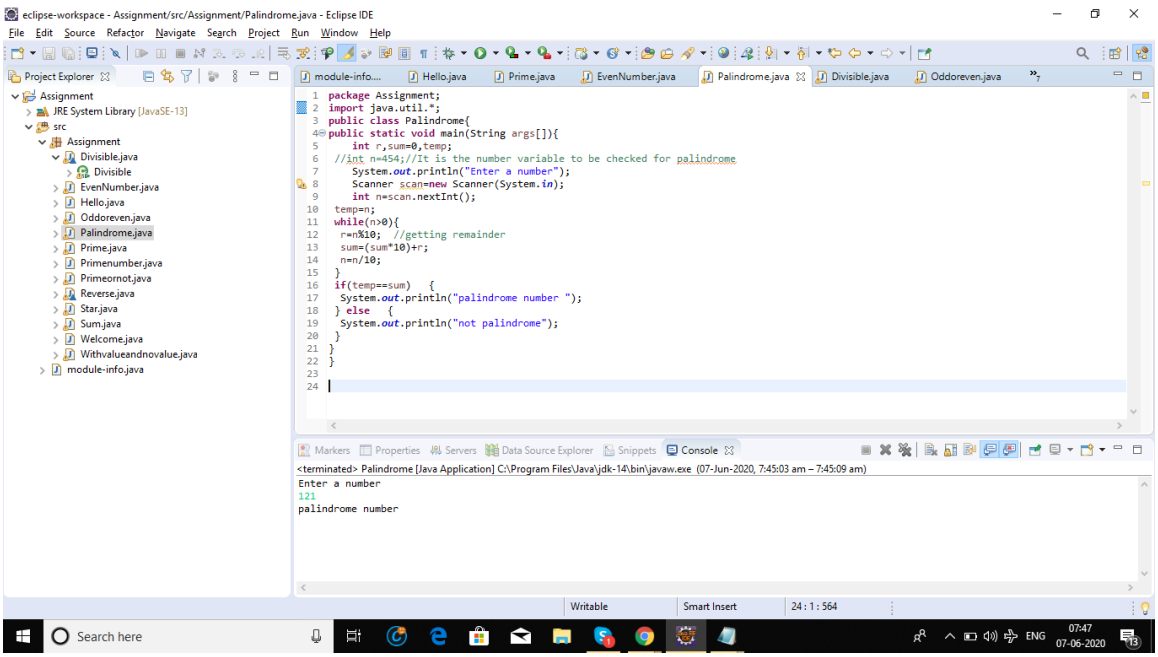
18.Palindrome

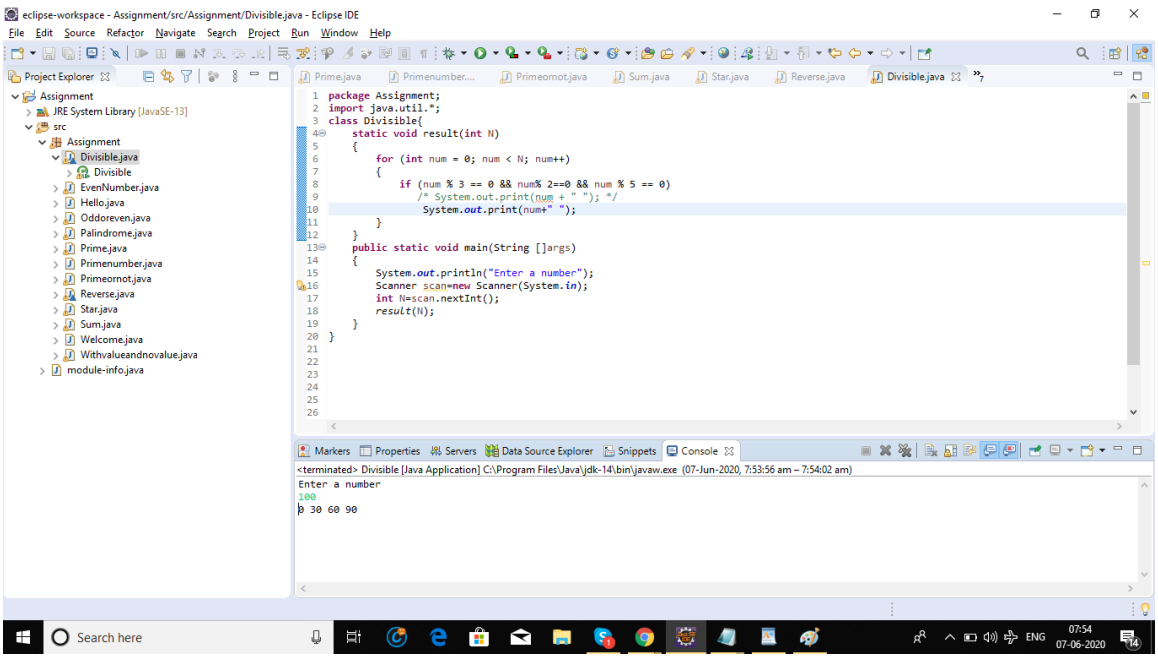
```
package Assignment;
import java.util.*;
public class Palindrome{
public static void main(String args[]){
      int r,sum=0,temp;
 //int n=454;//It is the number variable to be checked for palindrome
      System.out.println("Enter a number");
      Scanner scan=new Scanner(System.in);
      int n=scan.nextInt();
 temp=n;
 while(n>0){
  r=n%10;  //getting remainder
  sum=(sum*10)+r;
  n=n/10;
 }
 if(temp==sum)   {
  System.out.println("palindrome number ");
 } else   {
  System.out.println("not palindrome");
 }
}
}
```



19.Divisble

```
package Assignment;

import java.util.*;

class Divisible{

    static void result(int N)

    {

        for (int num = 0; num < N; num++)

        {

            if (num % 3 == 0 && num% 2==0 && num % 5 == 0)

               /* System.out.print(num + " "); */

             System.out.print(num+" ");

        }

    }

    public static void main(String []args)

    {

       System.out.println("Enter a number");
```

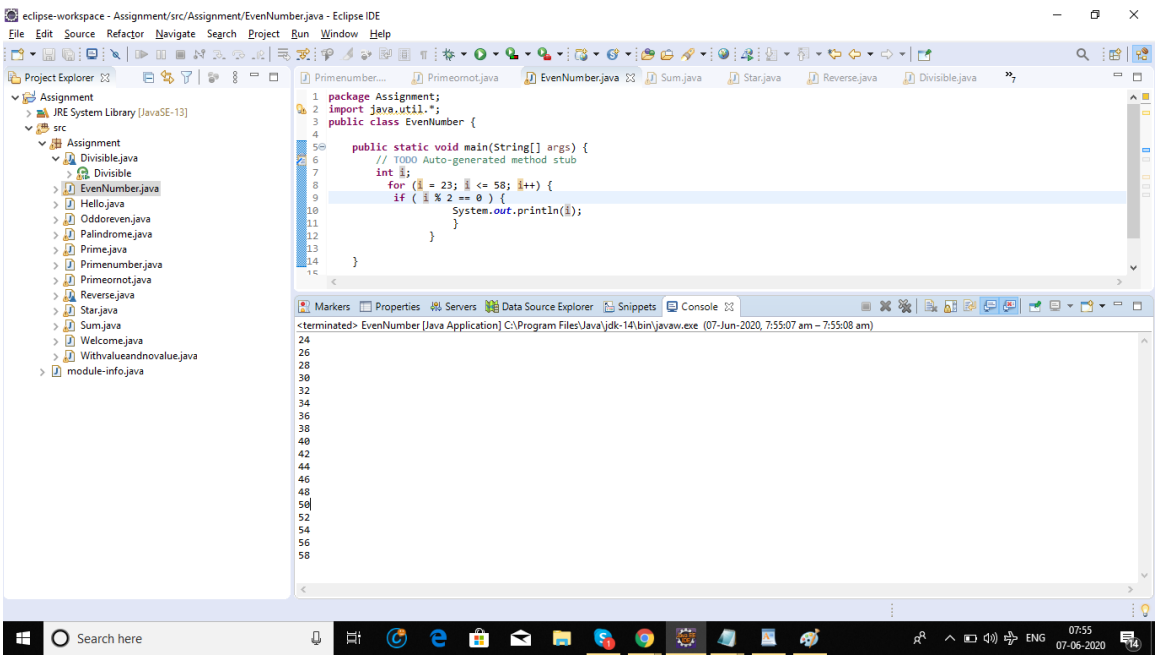
```
        Scanner scan=new Scanner(System.in);
        int N=scan.nextInt();
         result(N);
    }
}
```



11.EvenNumber

```
package Assignment;
import java.util.*;
public class EvenNumber {

        public static void main(String[] args) {
                // TODO Auto-generated method stub
                int i;
                  for (i = 23; i <= 58; i++) {
```

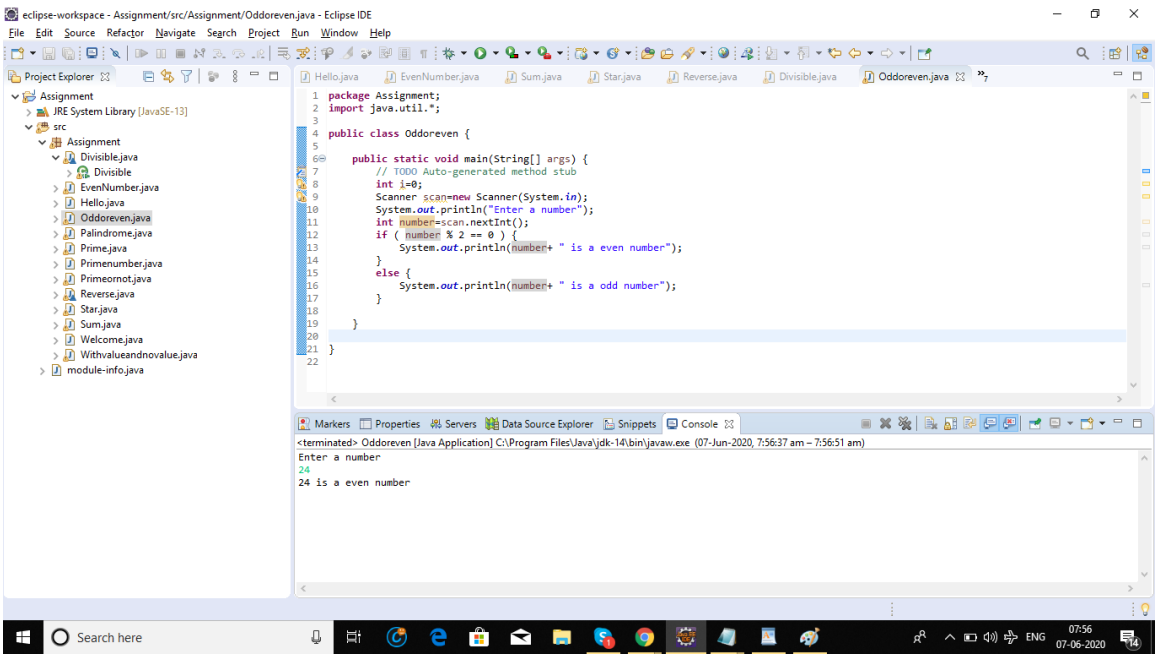
```
                if ( i % 2 == 0 ) {
                                System.out.println(i);
                                }
                        }
        }
}
```



2.odd or even

```
package Assignment;

import java.util.*;


public class Oddoreven {


        public static void main(String[] args) {
```

```
        // TODO Auto-generated method stub
        int i=0;
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter a number");
        int number=scan.nextInt();
        if ( number % 2 == 0 ) {
            System.out.println(number+ " is a even number");
        }
        else {
            System.out.println(number+ " is a odd number");
        }

    }

}
```

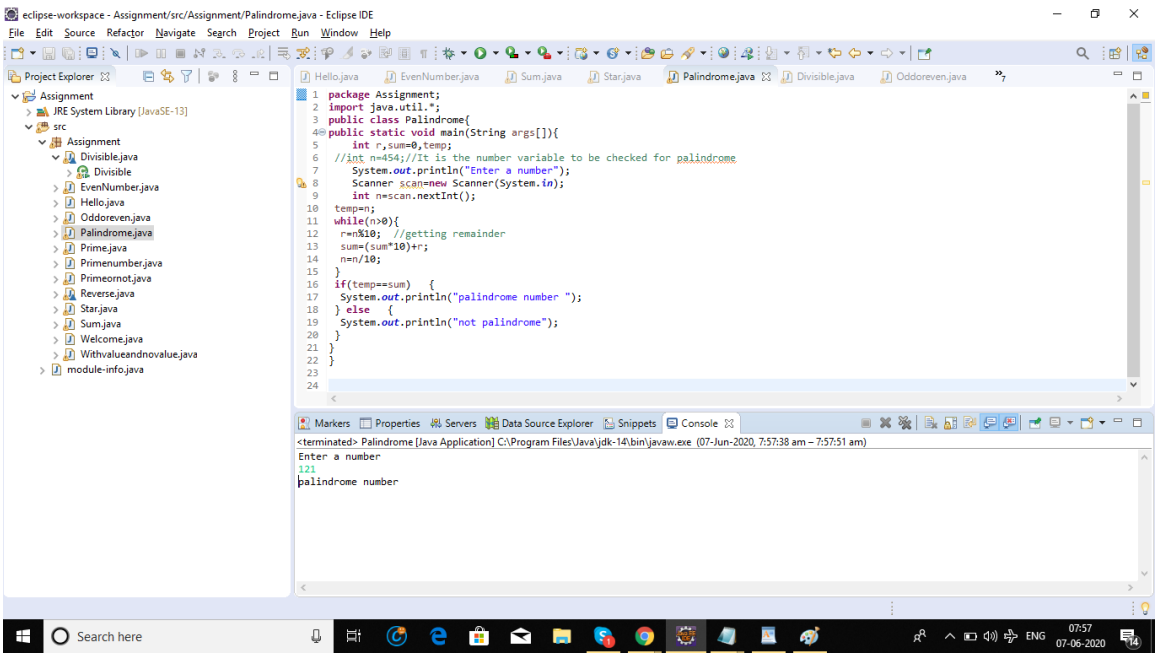


18.Palindrome

```
package Assignment;

import java.util.*;

public class Palindrome{

public static void main(String args[]){

      int r,sum=0,temp;

 //int n=454;//It is the number variable to be checked for palindrome

      System.out.println("Enter a number");

      Scanner scan=new Scanner(System.in);

      int n=scan.nextInt();

 temp=n;

 while(n>0){

  r=n%10;  //getting remainder

  sum=(sum*10)+r;

  n=n/10;

 }

 if(temp==sum)   {

  System.out.println("palindrome number ");

 } else   {

  System.out.println("not palindrome");

 }

}

}
```

```
package Assignment;

import java.util.*;

public class Palindrome{
```

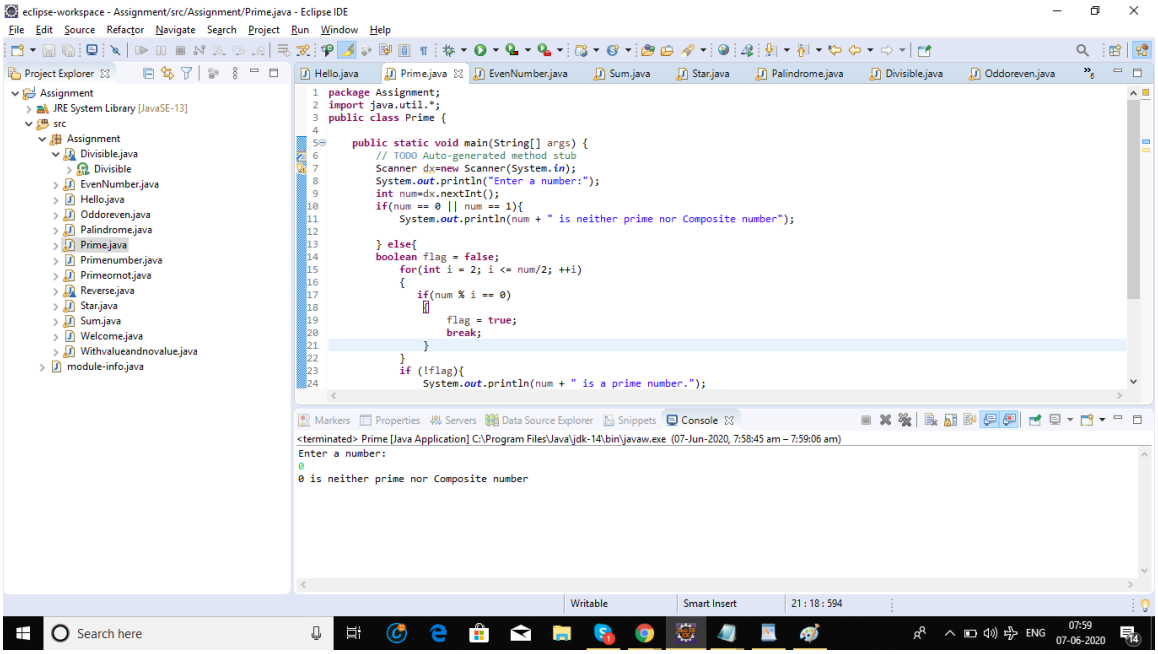
```
public static void main(String args[]){
      int r,sum=0,temp;
 //int n=454;//It is the number variable to be checked for palindrome
      System.out.println("Enter a number");
      Scanner scan=new Scanner(System.in);
      int n=scan.nextInt();
 temp=n;
 while(n>0){
  r=n%10;  //getting remainder
  sum=(sum*10)+r;
  n=n/10;
 }
 if(temp==sum)   {
  System.out.println("palindrome number ");
 } else   {
  System.out.println("not palindrome");
 }
}
}
```

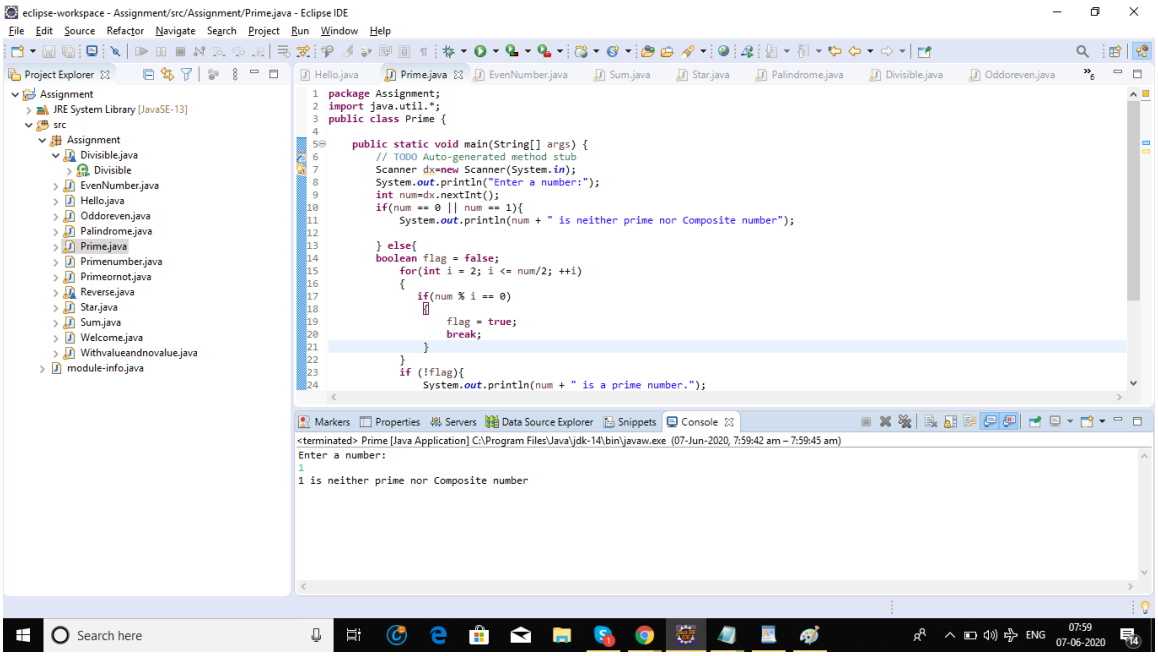


14.Prime or not

```
package Assignment;

import java.util.*;

public class Prime {


	public static void main(String[] args) {

		// TODO Auto-generated method stub

	Scanner dx=new Scanner(System.in);

	System.out.println("Enter a number:");

	int num=dx.nextInt();

	if(num == 0 || num == 1){

	    System.out.println(num + " is neither prime nor Composite number");


	} else{

	boolean flag = false;
```

```
            for(int i = 2; i <= num/2; ++i)
            {
                if(num % i == 0)
                {
                    flag = true;
                    break;
                }
            }
            if (!flag){
                System.out.println(num + " is a prime number.");
            }else{
                System.out.println(num + " is not a prime number.");
            }
        }

    }
```


eclipse-workspace - Assignment/src/Assignment/Prime.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
Assignment
JRE System Library [JavaSE-13]
src
Assignment
Divisible.java
Divisible
EvenNumber.java
Hello.java
Oddoreven.java
Palindrome.java
Prime.java
Primenumber.java
Primeornot.java
Reverse.java
Star.java
Sum.java
Welcome.java
Withvalueandnovalue.java
module-info.java
Hello.java
Prime.java
EvenNumber.java
Sum.java
Star.java
Palindrome.java
Divisible.java
Oddoreven.java
1 package Assignment;
2 import java.util.*;
3 public class Prime {
4
5 public static void main(String[] args) {
6 // TODO Auto-generated method stub
7 Scanner dx=new Scanner(System.in);
8 System.out.println("Enter a number:");
9 int num=dx.nextInt();
10 if(num == 0 || num == 1){
11 System.out.println(num + " is neither prime nor Composite number");
12
13 } else{
14 boolean flag = false;
15 for(int i = 2; i <= num/2; ++i)
16 {
17 if(num % i == 0)
18 {
19 flag = true;
20 break;
21 }
22 }
23 if (!flag){
24 System.out.println(num + " is a prime number.");
Markers Properties Servers Data Source Explorer Snippets Console
<terminated> Prime [Java Application] C:\Program Files\Java\jdk-14\bin\javaw.exe (07-Jun-2020, 7:58:45 am – 7:59:06 am)
Enter a number:
0
0 is neither prime nor Composite number
Writable
Smart Insert
21 : 18 : 594
Search here
ENG
07:59
07-06-2020


eclipse-workspace - Assignment/src/Assignment/Prime.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
Assignment
JRE System Library [JavaSE-13]
src
Assignment
Divisible.java
Divisible
EvenNumber.java
Hello.java
Oddoreven.java
Palindrome.java
Prime.java
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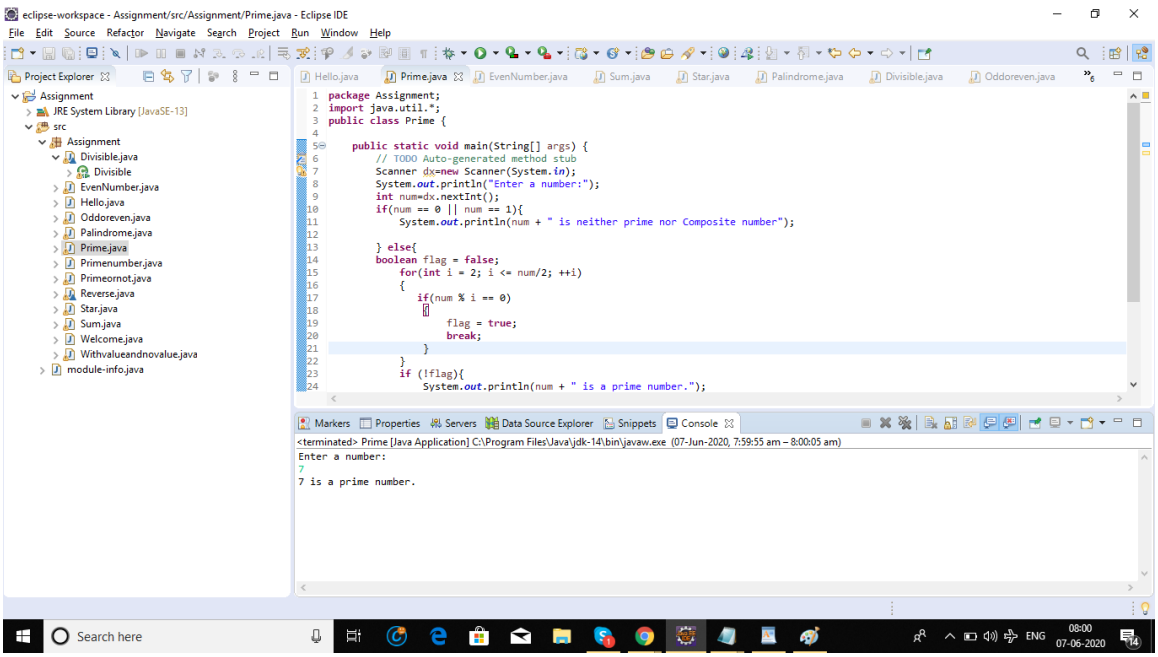
Primeornot.java
Reverse.java
Star.java
Sum.java
Welcome.java
Withvalueandnovalue.java
module-info.java
Hello.java
Prime.java
EvenNumber.java
Sum.java
Star.java
Palindrome.java
Divisible.java
Oddoreven.java
1 package Assignment;
2 import java.util.*;
3 public class Prime {
4
5 public static void main(String[] args) {
6 // TODO Auto-generated method stub
7 Scanner dx=new Scanner(System.in);
8 System.out.println("Enter a number:");
9 int num=dx.nextInt();
10 if(num == 0 || num == 1){
11 System.out.println(num + " is neither prime nor Composite number");
12
13 } else{
14 boolean flag = false;
15 for(int i = 2; i <= num/2; ++i)
16 {
17 if(num % i == 0)
18 {
19 flag = true;
20 break;
21 }
22 }
23 if (!flag){
24 System.out.println(num + " is a prime number.");
Markers Properties Servers Data Source Explorer Snippets Console
<terminated> Prime [Java Application] C:\Program Files\Java\jdk-14\bin\javaw.exe (07-Jun-2020, 7:59:42 am – 7:59:45 am)
Enter a number:
1
1 is neither prime nor Composite number
Search here
ENG
07:59
07-06-2020

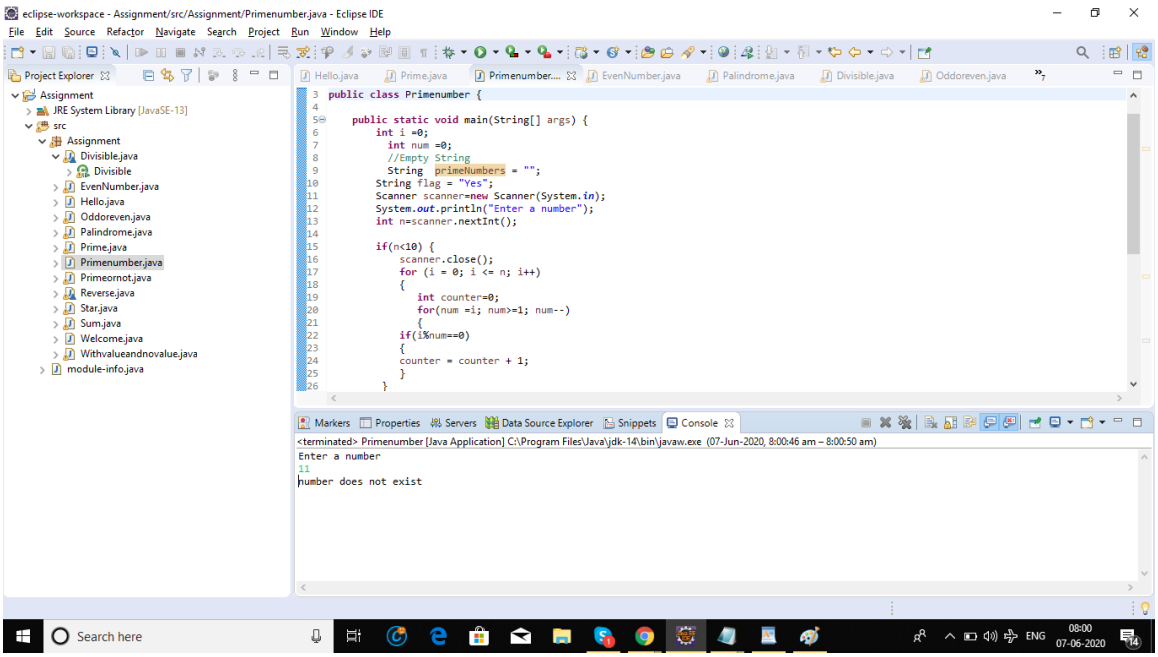


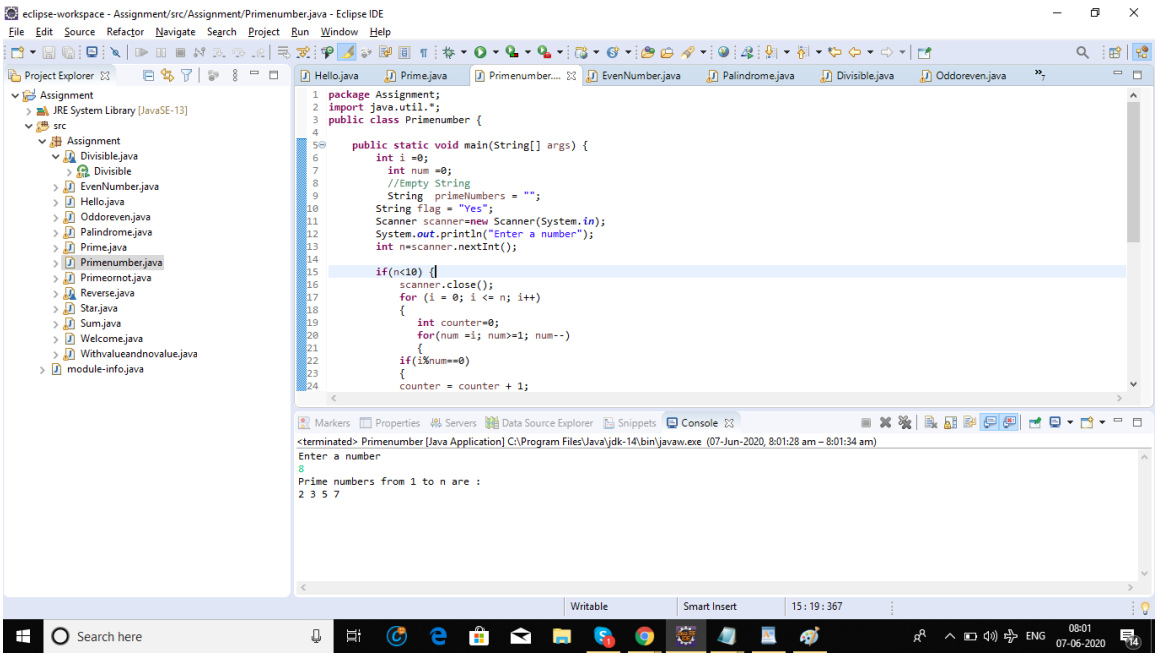
10.Prime number limitation 1 to 10

```
package Assignment;

import java.util.*;

public class Primenumber {


	public static void main(String[] args) {

		int i =0;

		int num =0;

		//Empty String

		String  primeNumbers = "";

	String flag = "Yes";

		Scanner scanner=new Scanner(System.in);

		System.out.println("Enter a number");

		int n=scanner.nextInt();
```

```
if(n<10) {
      scanner.close();
     for (i = 0; i <= n; i++)
     {
        int counter=0;
        for(num =i; num>=1; num--)
        {
   if(i%num==0)
   {
      counter = counter + 1;
   }
}
if (counter ==2)
{
   //Appended the Prime number to the String
   primeNumbers = primeNumbers + i + " ";
}
     }
  }

 else {
      System.out.println("number does not exist");
      flag = "No";
}
if(flag == "Yes"){
     System.out.println("Prime numbers from 1 to n are :");
     System.out.println(primeNumbers);
   }
```

```
        }

}
```

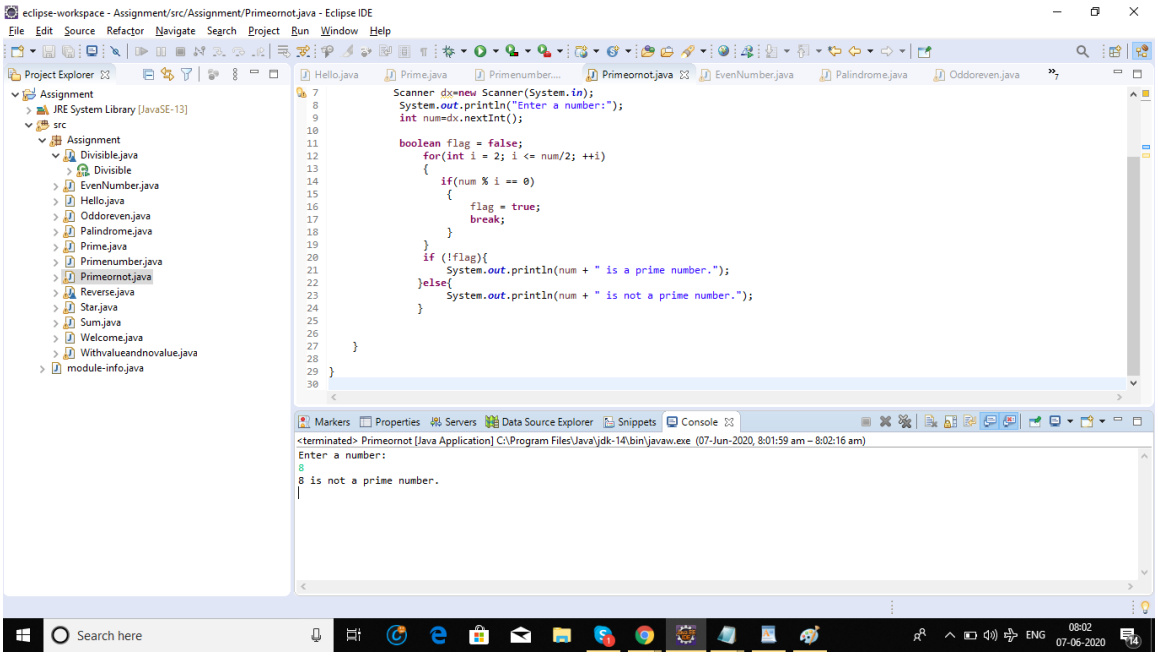

eclipse-workspace - Assignment/src/Assignment/Primenumber.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
Assignment
JRE System Library [JavaSE-13]
src
Assignment
Divisible.java
Divisible
EvenNumber.java
Hello.java
Oddoreven.java
Palindrome.java
Prime.java
Primenumber.java
Primeornot.java
Reverse.java
Star.java
Sum.java
Welcome.java
Withvalueandnovalue.java
module-info.java
Hello.java
Prime.java
Primenumber....
EvenNumber.java
Palindrome.java
Divisible.java
Oddoreven.java
3 public class Primenumber {
4
5 public static void main(String[] args) {
6 int i =0;
7 int num =0;
8 //Empty String
9 String primeNumbers = "";
10 String flag = "Yes";
11 Scanner scanner=new Scanner(System.in);
12 System.out.println("Enter a number");
13 int n=scanner.nextInt();
14
15 if(n<10) {
16 scanner.close();
17 for (i = 0; i <= n; i++)
18 {
19 int counter=0;
20 for(num =i; num>=1; num--)
21 {
22 if(i%num==0)
23 {
24 counter = counter + 1;
25 }
26 }
Markers Properties Servers Data Source Explorer Snippets Console
<terminated> Primenumber [Java Application] C:\Program Files\Java\jdk-14\bin\javaw.exe (07-Jun-2020, 8:00:46 am – 8:00:50 am)
Enter a number
11
number does not exist
Search here
ENG
08:00
07-06-2020

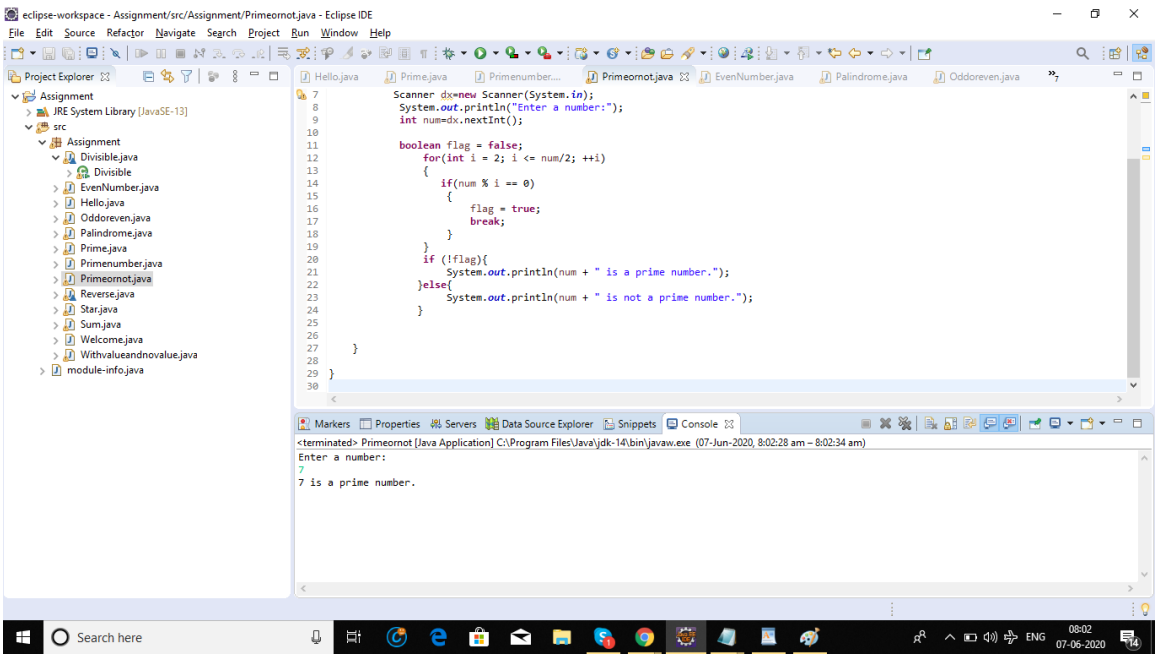

eclipse-workspace - Assignment/src/Assignment/Primenumber.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
Assignment
JRE System Library [JavaSE-13]
src
Assignment
Divisible.java
Divisible
EvenNumber.java
Hello.java
Oddoreven.java
Palindrome.java
Prime.java
Primenumber.java
Primeornot.java
Reverse.java
Star.java
Sum.java
Welcome.java
Withvalueandnovalue.java
module-info.java
Hello.java
Prime.java
Primenumber....
EvenNumber.java
Palindrome.java
Divisible.java
Oddoreven.java
1 package Assignment;
2 import java.util.*;
3 public class Primenumber {
4
5 public static void main(String[] args) {
6 int i =0;
7 int num =0;
8 //Empty String
9 String primeNumbers = "";
10 String flag = "Yes";
11 Scanner scanner=new Scanner(System.in);
12 System.out.println("Enter a number");
13 int n=scanner.nextInt();
14
15 if(n<10) {
16 scanner.close();
17 for (i = 0; i <= n; i++)
18 {
19 int counter=0;
20 for(num =i; num>=1; num--)
21 {
22 if(i%num==0)
23 {
24 counter = counter + 1;
Markers Properties Servers Data Source Explorer Snippets Console
<terminated> Primenumber [Java Application] C:\Program Files\Java\jdk-14\bin\javaw.exe (07-Jun-2020, 8:01:28 am – 8:01:34 am)
Enter a number
8
Prime numbers from 1 to n are :
2 3 5 7
Writable
Smart Insert
15 : 19 : 367
Search here
ENG
08:01
07-06-2020

12.Prime or not

```
package Assignment;

import java.util.*;

public class Primeornot {


	public static void main(String[] args) {

		// TODO Auto-generated method stub

		   Scanner dx=new Scanner(System.in);

		    System.out.println("Enter a number:");

		    int num=dx.nextInt();


		    boolean flag = false;

		        for(int i = 2; i <= num/2; ++i)

		        {

		           if(num % i == 0)

		            {

		                flag = true;

		                break;

		            }

		        }

		        if (!flag){

		            System.out.println(num + " is a prime number.");

		       }else{

		            System.out.println(num + " is not a prime number.");

		       }



	}
```

}

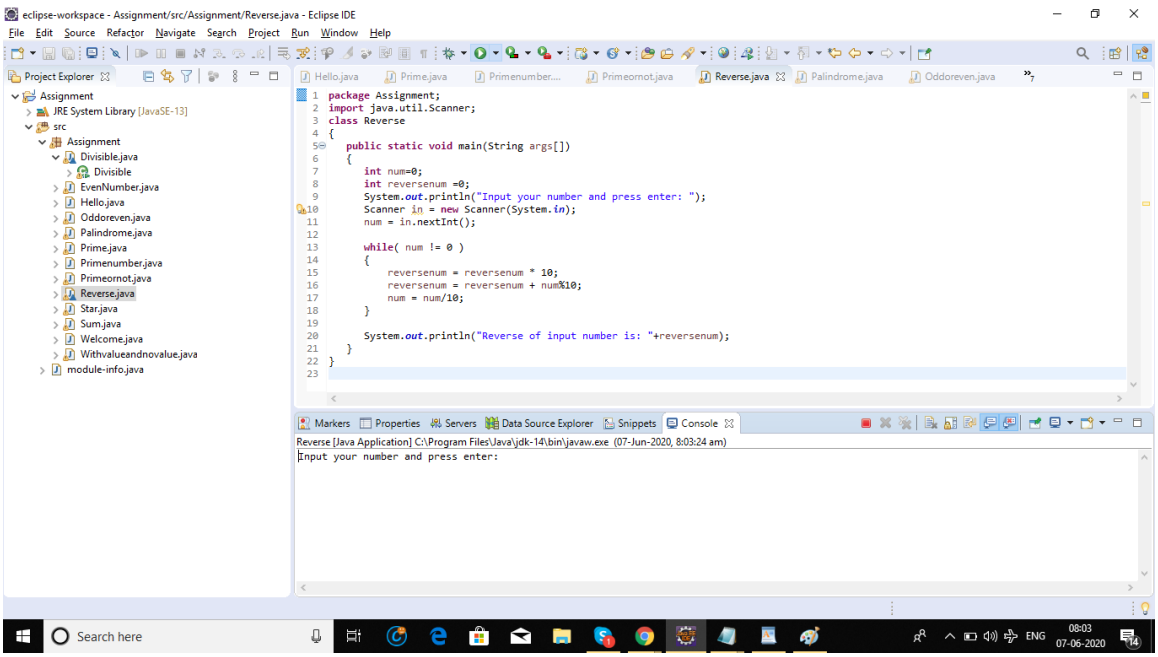




17.Reverse

```
package Assignment;
```

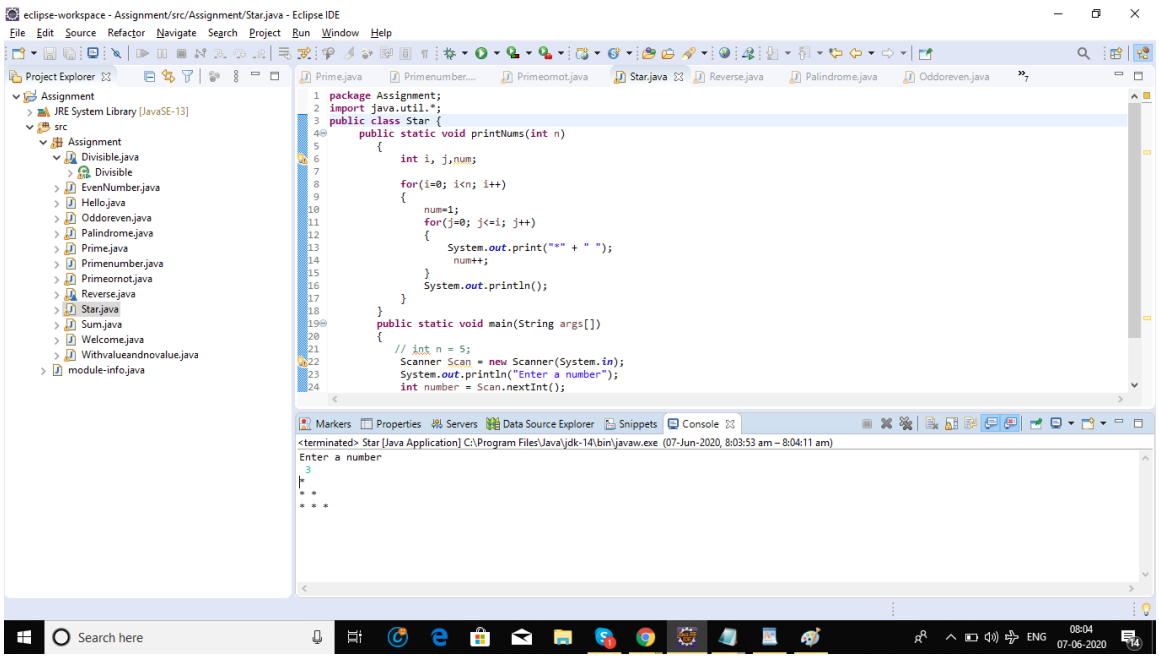
```java
import java.util.Scanner;
class Reverse
{
   public static void main(String args[])
   {
      int num=0;
      int reversenum =0;
      System.out.println("Input your number and press enter: ");
      Scanner in = new Scanner(System.in);
      num = in.nextInt();

      while( num != 0 )
      {
          reversenum = reversenum * 10;
          reversenum = reversenum + num%10;
          num = num/10;
      }

      System.out.println("Reverse of input number is: "+reversenum);
   }
}
```



16.star

```
package Assignment;

import java.util.*;

public class Star {

        public static void printNums(int n)

           {

               int i, j,num;


               for(i=0; i<n; i++)

               {

                   num=1;

                   for(j=0; j<=i; j++)

                   {

                       System.out.print("*" + " ");

                        num++;

                   }
```

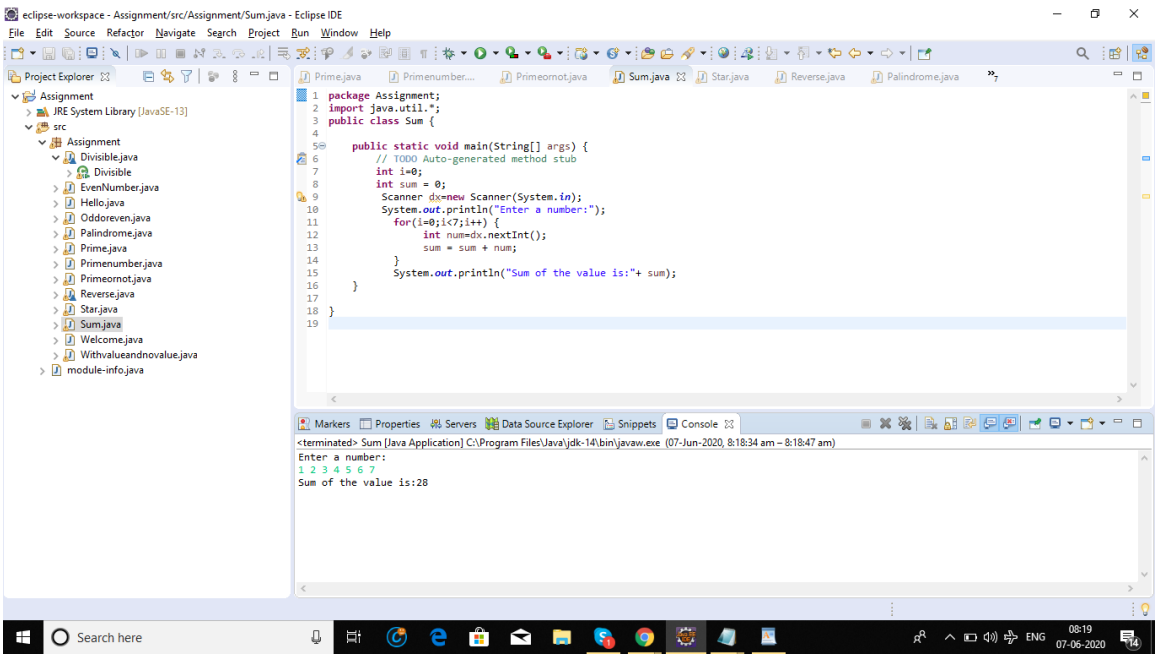
```
                System.out.println();
            }
        }
        public static void main(String args[])
        {
           // int n = 5;
            Scanner Scan = new Scanner(System.in);
            System.out.println("Enter a number");
            int number = Scan.nextInt();
            printNums(number);
        }
}
```



15.SUM

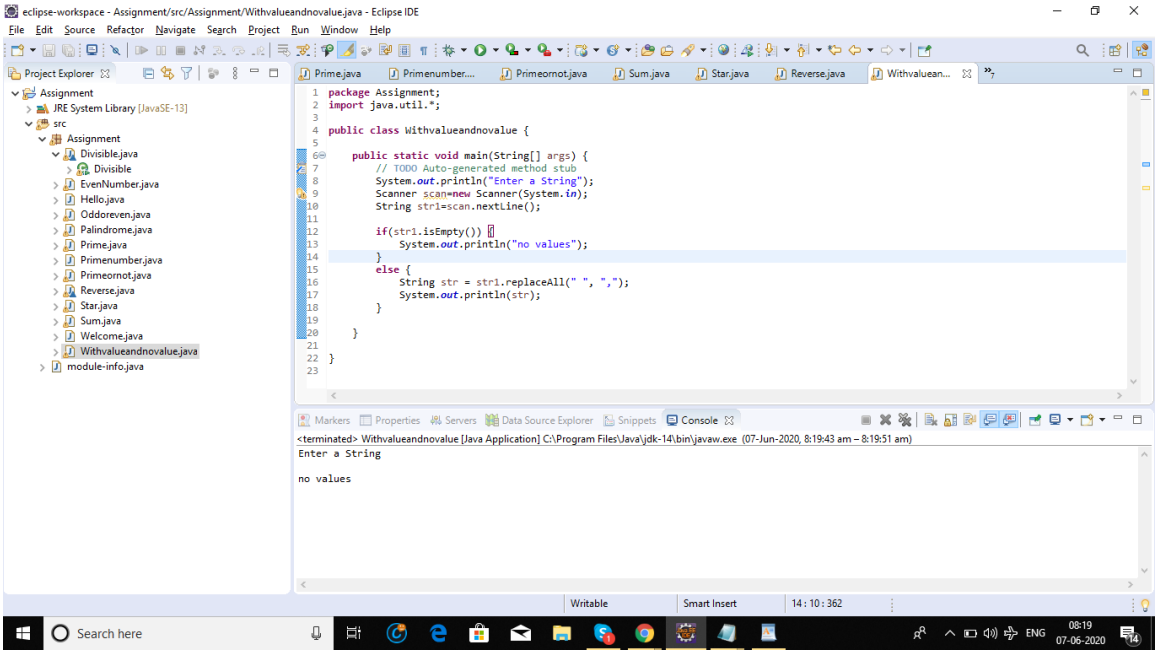
```
package Assignment;
```

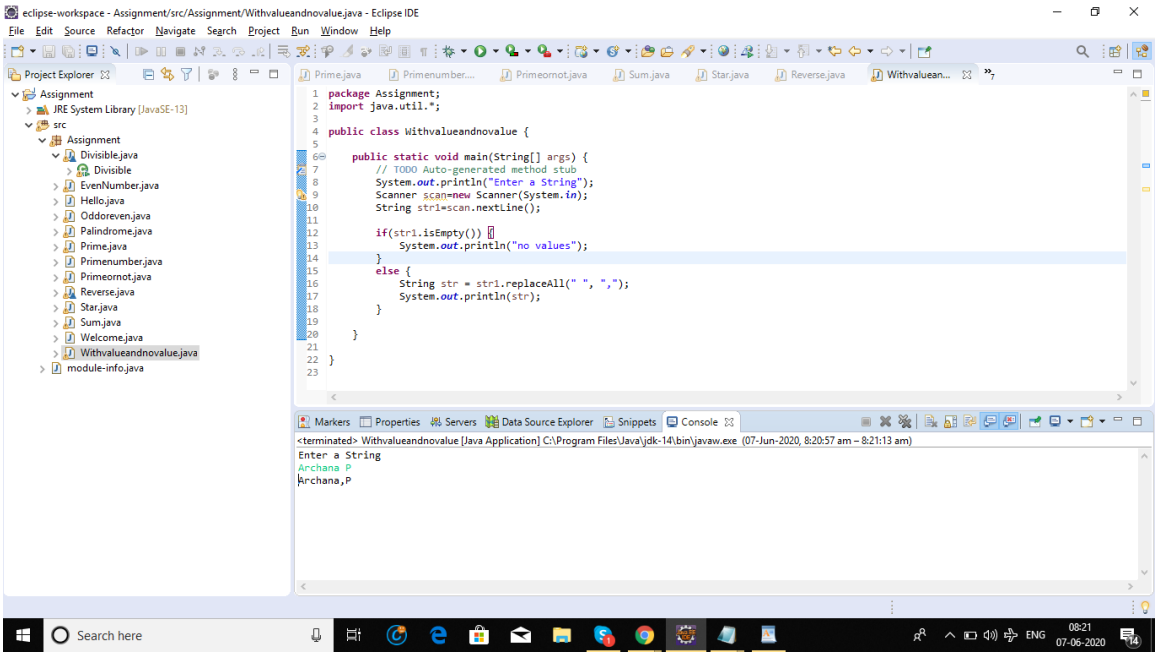
```java
import java.util.*;
public class Sum {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int i=0;
		int sum = 0;
		 Scanner dx=new Scanner(System.in);
		 System.out.println("Enter a number:");
		   for(i=0;i<7;i++) {
			   int num=dx.nextInt();
			   sum = sum + num;
		   }
		   System.out.println("Sum of the value is:"+ sum);
	}

}
```



3.With value and Without value

```
package Assignment;

import java.util.*;


public class Withvalueandnovalue {


	public static void main(String[] args) {

		// TODO Auto-generated method stub

		System.out.println("Enter a String");

	Scanner scan=new Scanner(System.in);

	String str1=scan.nextLine();


	if(str1.isEmpty()) {

		System.out.println("no values");

	}

	else {

		String str = str1.replaceAll(" ", ",");

		System.out.println(str);

	}


	}


}
```


eclipse-workspace - Assignment/src/Assignment/Withvalueandnovalue.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
Assignment
JRE System Library [JavaSE-13]
src
Assignment
Divisible.java
Divisible
EvenNumber.java
Hello.java
Oddoreven.java
Palindrome.java
Prime.java
Primenumber.java
Primeornot.java
Reverse.java
Star.java
Sum.java
Welcome.java
Withvalueandnovalue.java
module-info.java
Prime.java
Primenumber....
Primeornot.java
Sum.java
Star.java
Reverse.java
Withvalueandnovalue.java
1 package Assignment;
2 import java.util.*;
3
4 public class Withvalueandnovalue {
5
6 public static void main(String[] args) {
7 // TODO Auto-generated method stub
8 System.out.println("Enter a String");
9 Scanner scan=new Scanner(System.in);
10 String str1=scan.nextLine();
11
12 if(str1.isEmpty()) {
13 System.out.println("no values");
14 }
15 else {
16 String str = str1.replaceAll(" ", ",");
17 System.out.println(str);
18 }
19
20 }
21
22 }
23
Markers Properties Servers Data Source Explorer Snippets Console
<terminated> Withvalueandnovalue [Java Application] C:\Program Files\Java\jdk-14\bin\javaw.exe (07-Jun-2020, 8:19:43 am – 8:19:51 am)
Enter a String
no values
Writable
Smart Insert
14 : 10 : 362
Search here
ENG
08:19
07-06-2020


eclipse-workspace - Assignment/src/Assignment/Withvalueandnovalue.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
Assignment
JRE System Library [JavaSE-13]
src
Assignment
Divisible.java
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Withvalueandnovalue.java
module-info.java
Prime.java
Primenumber....
Primeornot.java
Sum.java
Star.java
Reverse.java
Withvalueandnovalue.java
1 package Assignment;
2 import java.util.*;
3
4 public class Withvalueandnovalue {
5
6 public static void main(String[] args) {
7 // TODO Auto-generated method stub
8 System.out.println("Enter a String");
9 Scanner scan=new Scanner(System.in);
10 String str1=scan.nextLine();
11
12 if(str1.isEmpty()) {
13 System.out.println("no values");
14 }
15 else {
16 String str = str1.replaceAll(" ", ",");
17 System.out.println(str);
18 }
19
20 }
21
22 }
23
Markers Properties Servers Data Source Explorer Snippets Console
<terminated> Withvalueandnovalue [Java Application] C:\Program Files\Java\jdk-14\bin\javaw.exe (07-Jun-2020, 8:20:57 am – 8:21:13 am)
Enter a String
Archana P
Archana,P
Search here
ENG
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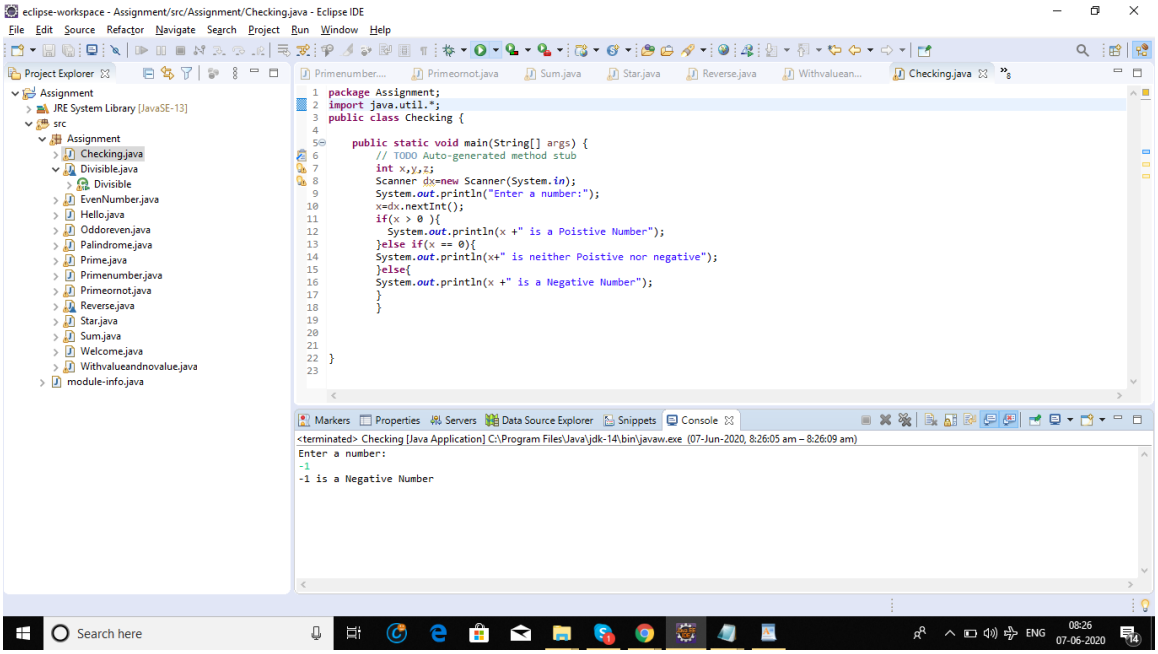
07-06-2020

1.Checking

```
package Assignment;
import java.util.*;
public class Checking {


	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int x,y,z;
		Scanner dx=new Scanner(System.in);
		System.out.println("Enter a number:");
		x=dx.nextInt();
		if(x > 0 ){
		  System.out.println(x +" is a Poistive Number");
		}else if(x == 0){
		System.out.println(x+" is neither Poistive nor negative");
		}else{
		System.out.println(x +" is a Negative Number");
		}
		}
}
```


eclipse-workspace - Assignment/src/Assignment/Checking.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
Assignment
JRE System Library [JavaSE-13]
src
Assignment
Checking.java
Divisible.java
Divisible
EvenNumber.java
Hello.java
Oddoreven.java
Palindrome.java
Prime.java
Primenumber.java
Primeornot.java
Reverse.java
Star.java
Sum.java
Welcome.java
Withvalueandnovalue.java
module-info.java
Primenumber.... Primeornot.java Sum.java Star.java Reverse.java Withvalueandnovalue.... Checking.java
1 package Assignment;
2 import java.util.*;
3 public class Checking {
4
5 public static void main(String[] args) {
6 // TODO Auto-generated method stub
7 int x,y,z;
8 Scanner dx=new Scanner(System.in);
9 System.out.println("Enter a number:");
10 x=dx.nextInt();
11 if(x > 0){
12 System.out.println(x +" is a Poistive Number");
13 }else if(x == 0){
14 System.out.println(x+" is neither Poistive nor negative");
15 }else{
16 System.out.println(x +" is a Negative Number");
17 }
18 }
19
20
21
22 }
23
Markers Properties Servers Data Source Explorer Snippets Console
<terminated> Checking [Java Application] C:\Program Files\Java\jdk-14\bin\javaw.exe (07-Jun-2020, 8:26:05 am – 8:26:09 am)
Enter a number:
-1
-1 is a Negative Number
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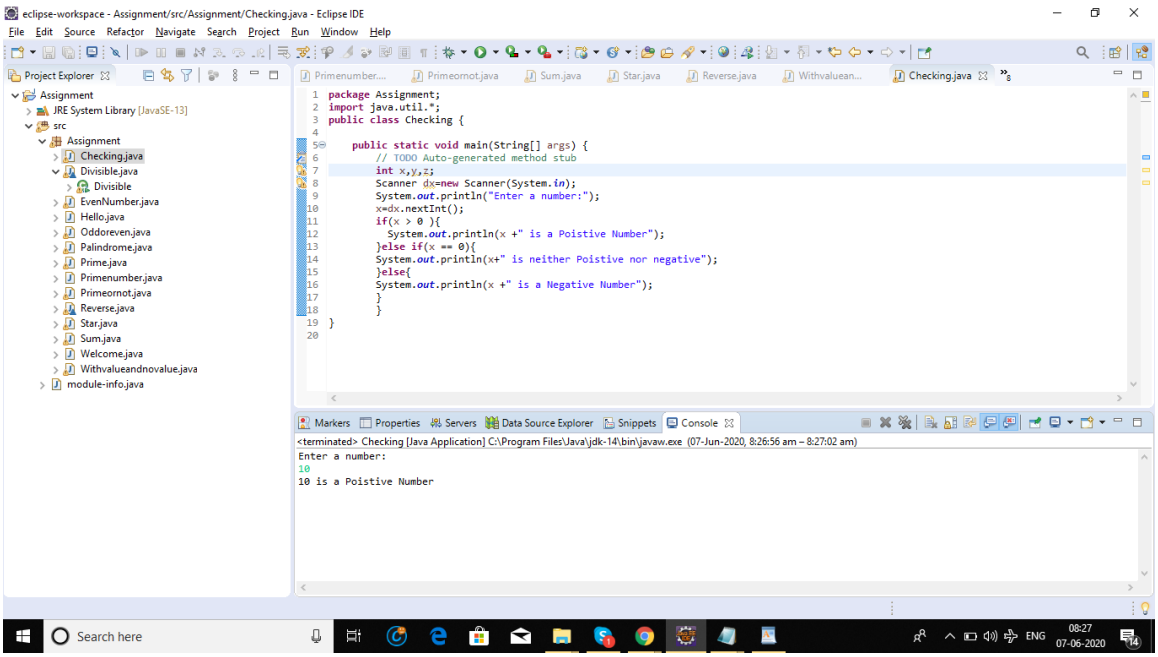
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15 }else{
16 System.out.println(x +" is a Negative Number");
17 }
18 }
19 }
20
Markers Properties Servers Data Source Explorer Snippets Console
<terminated> Checking [Java Application] C:\Program Files\Java\jdk-14\bin\javaw.exe (07-Jun-2020, 8:26:56 am – 8:27:02 am)
Enter a number:
10
10 is a Poistive Number
Search here
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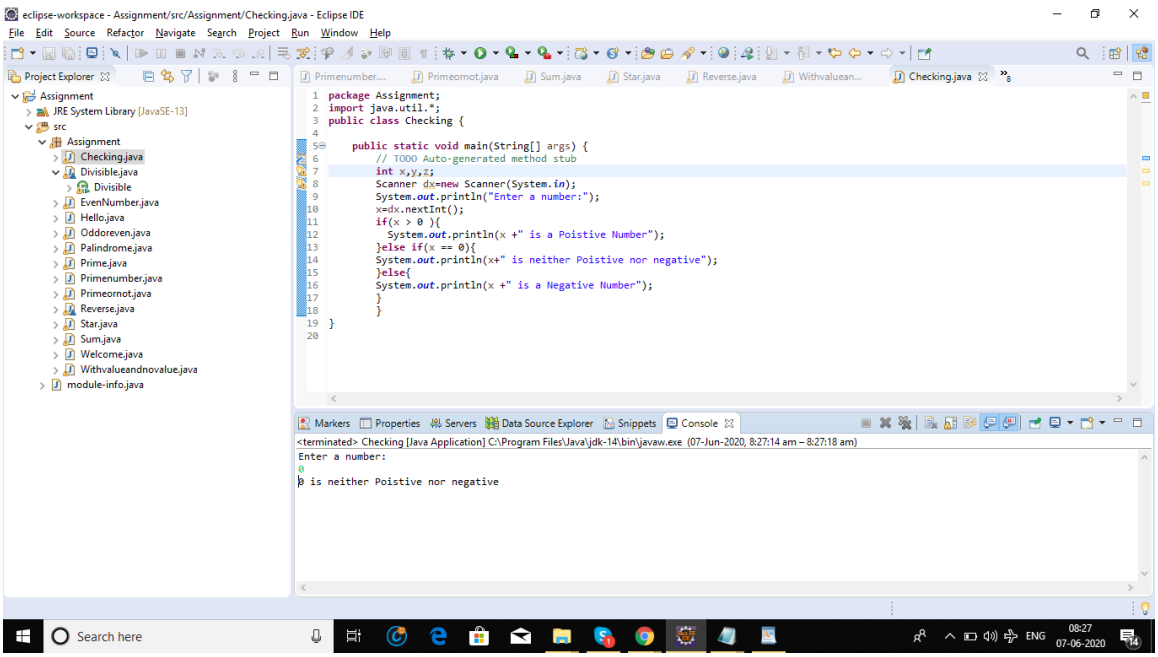
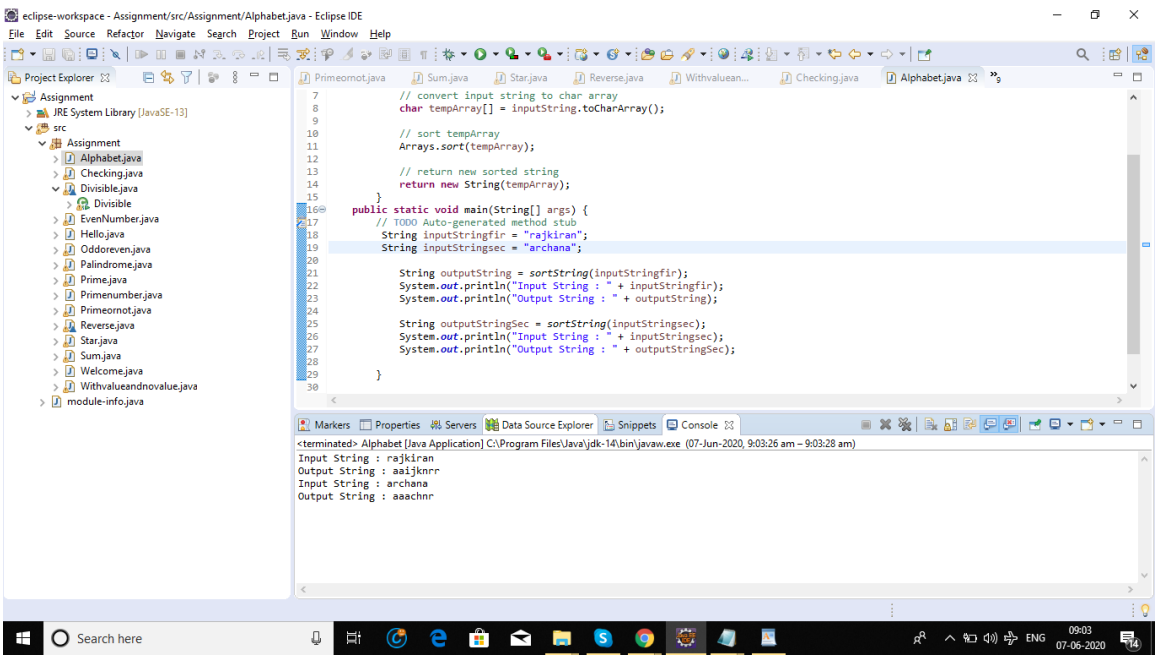


4. Alphabet

```
package Assignment;

import java.util.Arrays;


public class Alphabet {

        public static String sortString(String inputString)

           {

               // convert input string to char array

               char tempArray[] = inputString.toCharArray();


               // sort tempArray

               Arrays.sort(tempArray);


               // return new sorted string

               return new String(tempArray);

           }
```

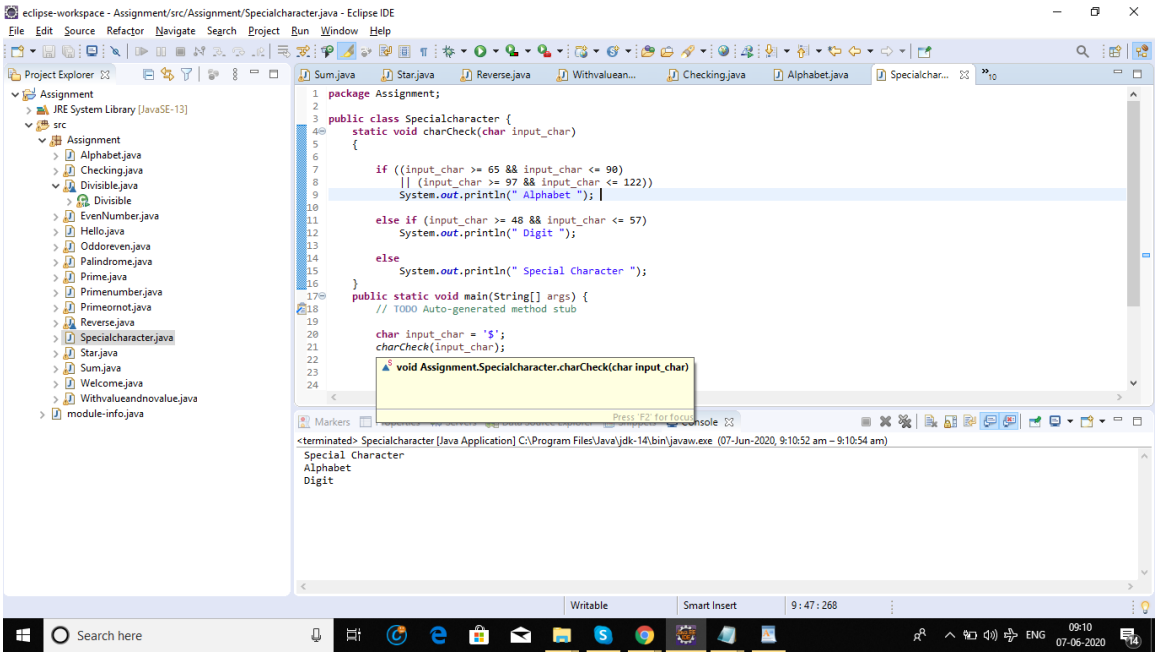
```
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        String inputStringfir = "Rajkiran";
        String inputStringsec = "Archana";

        String outputString = sortString(inputStringfir);
        System.out.println("Input String : " + inputStringfir);
        System.out.println("Output String : " + outputString);

        String outputStringSec = sortString(inputStringsec);
        System.out.println("Input String : " + inputStringsec);
        System.out.println("Output String : " + outputStringSec);

    }

}
```



5. Alphabet - Special Character - number

```
package Assignment;

public class Specialcharacter {
       static void charCheck(char input_char)
    {

        if ((input_char >= 65 && input_char <= 90)
            || (input_char >= 97 && input_char <= 122))
            System.out.println(" Alphabet ");

        else if (input_char >= 48 && input_char <= 57)
            System.out.println(" Digit ");

        else
            System.out.println(" Special Character ");
    }
       public static void main(String[] args) {
             // TODO Auto-generated method stub

             char input_char = '$';
        charCheck(input_char);

             char input_alpha = 'a';
        charCheck(input_alpha);

             char number = '5';
        charCheck(number);
```

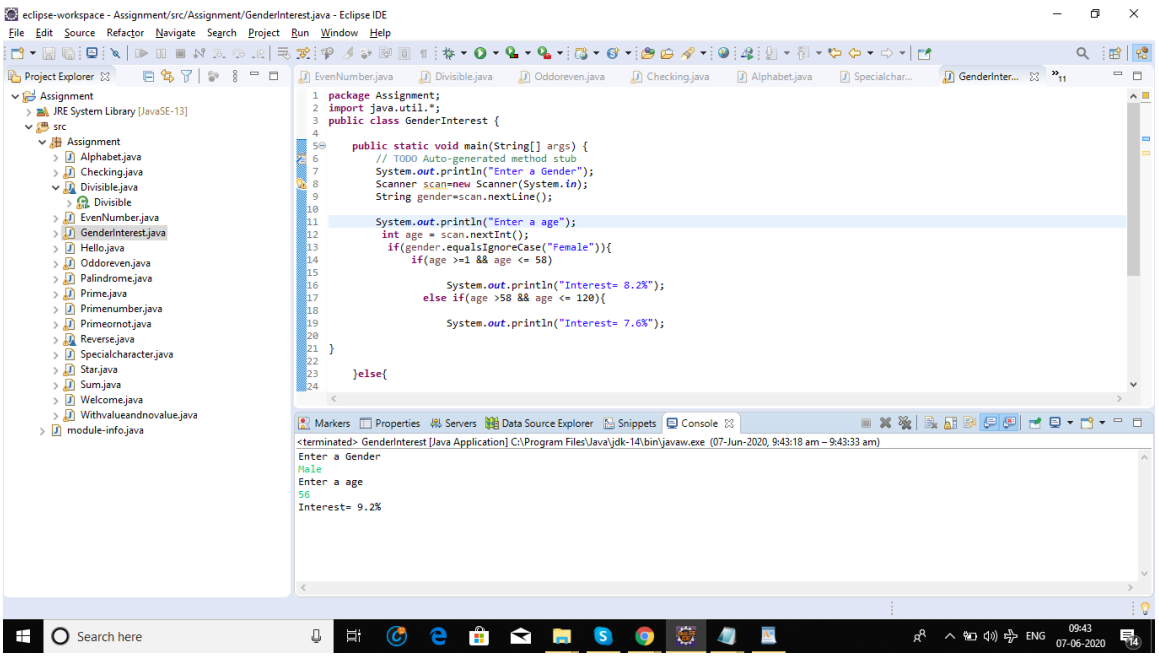
```
    }

}
```

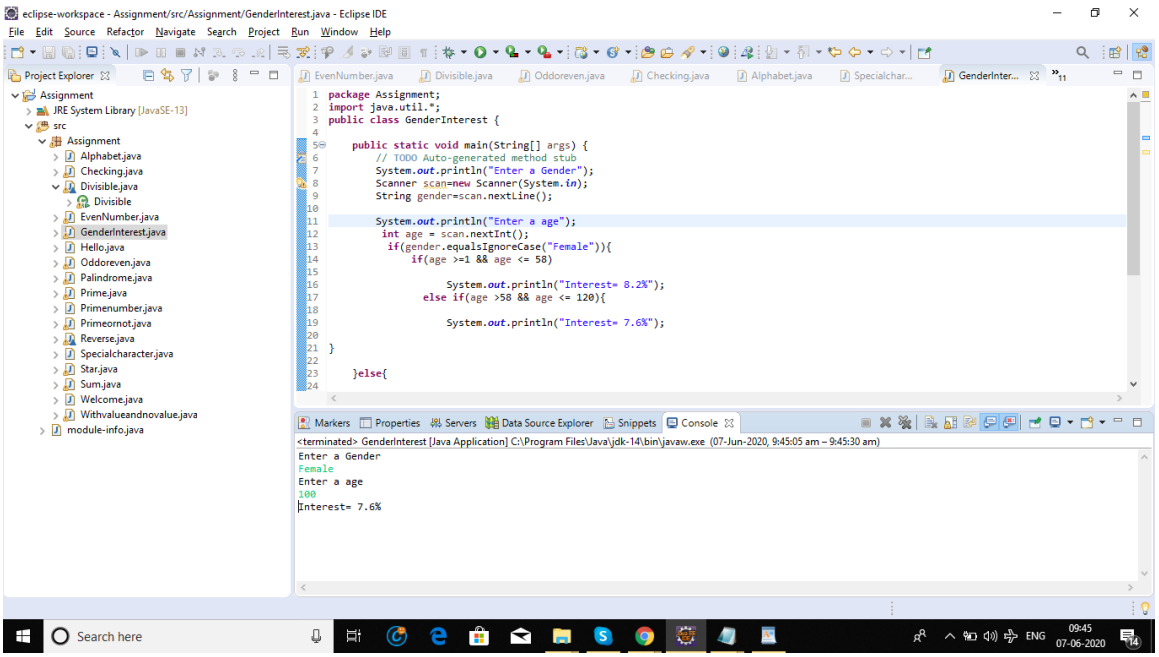


6. Bank Interest program

```
package Assignment;

import java.util.*;

public class GenderInterest {


        public static void main(String[] args) {

                // TODO Auto-generated method stub

                System.out.println("Enter a Gender");

        Scanner scan=new Scanner(System.in);

        String gender=scan.nextLine();
```

```
        System.out.println("Enter a age");
          int age = scan.nextInt();
           if(gender.equalsIgnoreCase("Female")){
               if(age >=1 && age <= 58)

                    System.out.println("Interest= 8.2%");
                 else if(age >58 && age <= 120){

                    System.out.println("Interest= 7.6%");

}

        }else{

               if(age >=1 && age <= 60)

                    System.out.println("Interest= 9.2%");
 else if(age >=60 && age <= 120){

                    System.out.println("Interest= 8.3%");

}

        }
}

}
```

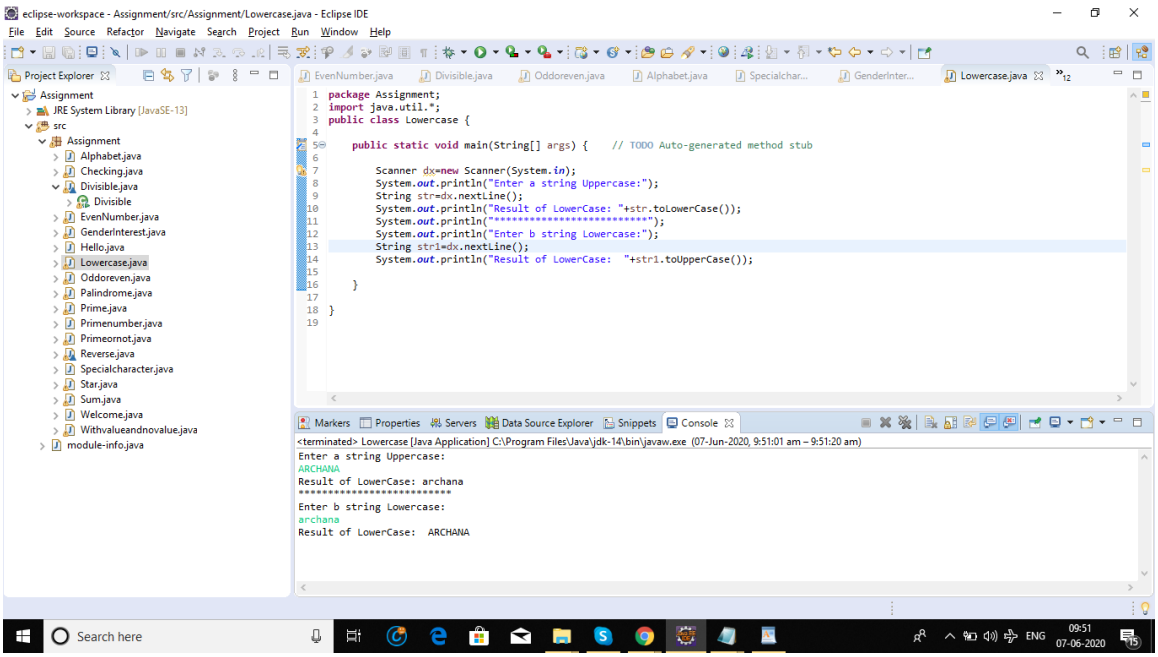




7. Lowercase

```
package Assignment;

import java.util.*;

public class Lowercase {
```

```
    public static void main(String[] args) {       // TODO Auto-generated method stub

        Scanner dx=new Scanner(System.in);
        System.out.println("Enter a string Uppercase:");
        String str=dx.nextLine();
        System.out.println("Result of LowerCase: "+str.toLowerCase());
        System.out.println("**************************");
        System.out.println("Enter b string Lowercase:");
        String str1=dx.nextLine();
        System.out.println("Result of LowerCase:  "+str1.toUpperCase());


    }

}
```



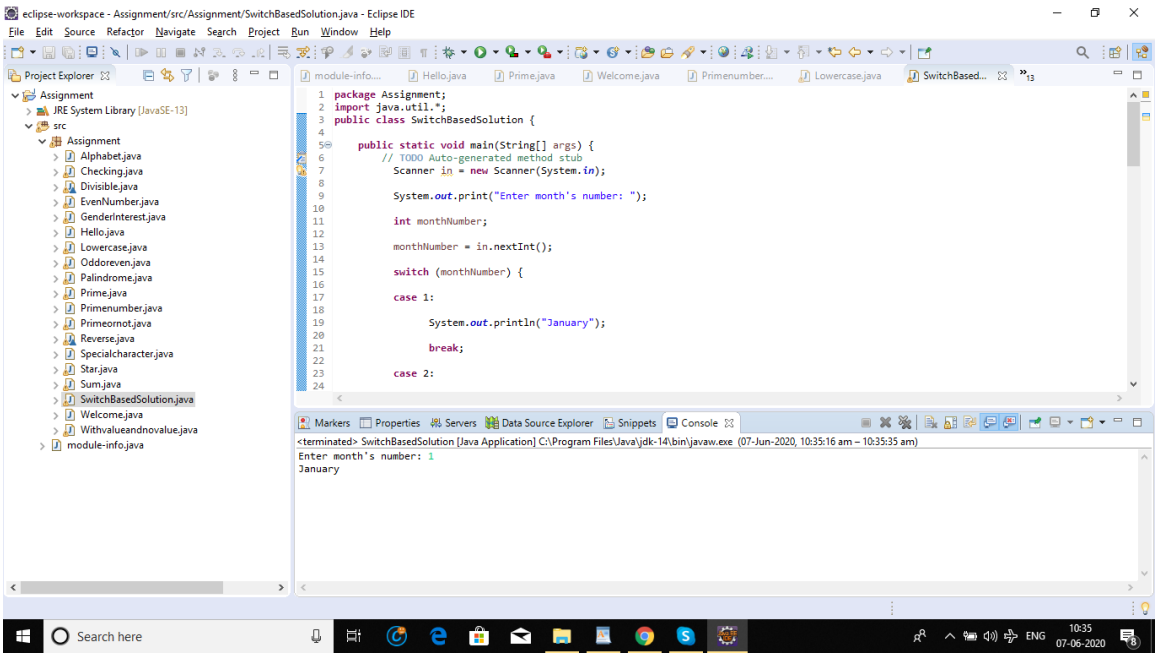
Month

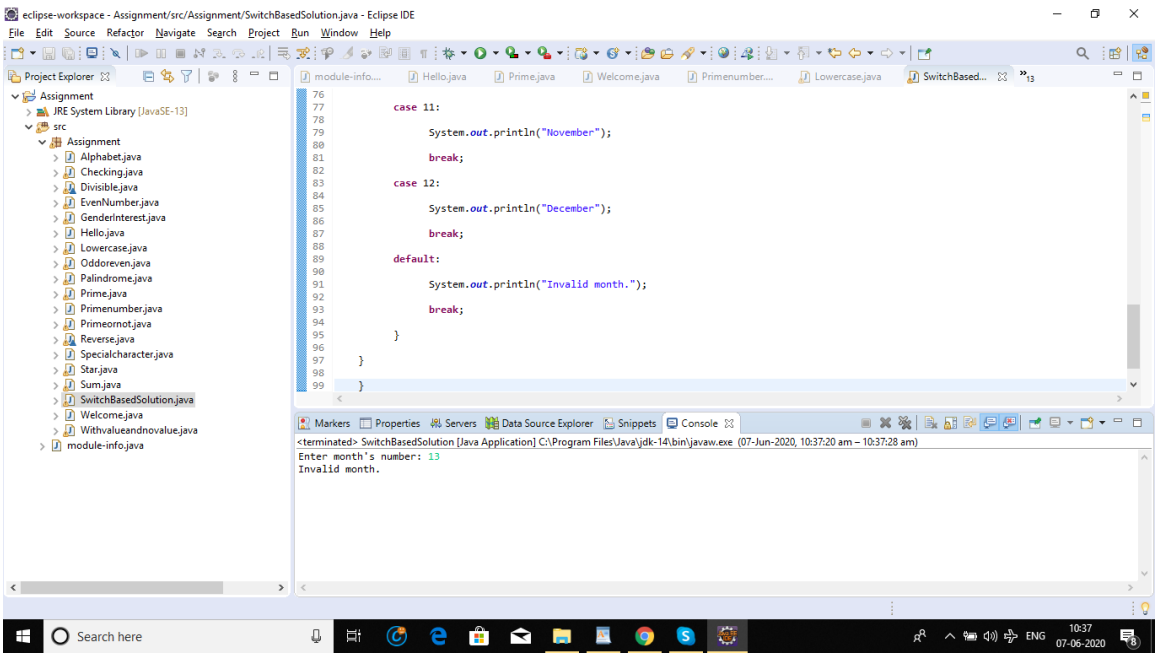
```
package Assignment;

import java.util.*;

public class SwitchBasedSolution {


	public static void main(String[] args) {

		// TODO Auto-generated method stub

		Scanner in = new Scanner(System.in);


		System.out.print("Enter month's number: ");


		int monthNumber;


		monthNumber = in.nextInt();


		switch (monthNumber) {


		case 1:


			System.out.println("January");


			break;


		case 2:


			System.out.println("February");


			break;
```

```
case 3:
      System.out.println("March");
      break;
case 4:
      System.out.println("April");
      break;
case 5:
      System.out.println("May");
      break;
case 6:
      System.out.println("June");
      break;
case 7:
      System.out.println("July");
      break;
```

```
case 8:
      System.out.println("August");
      break;
case 9:
      System.out.println("September");
      break;
case 10:
      System.out.println("October");
      break;
case 11:
      System.out.println("November");
      break;
case 12:
      System.out.println("December");
      break;
```

```
        default:

                System.out.println("Invalid month.");

                break;

        }

}

   }
```

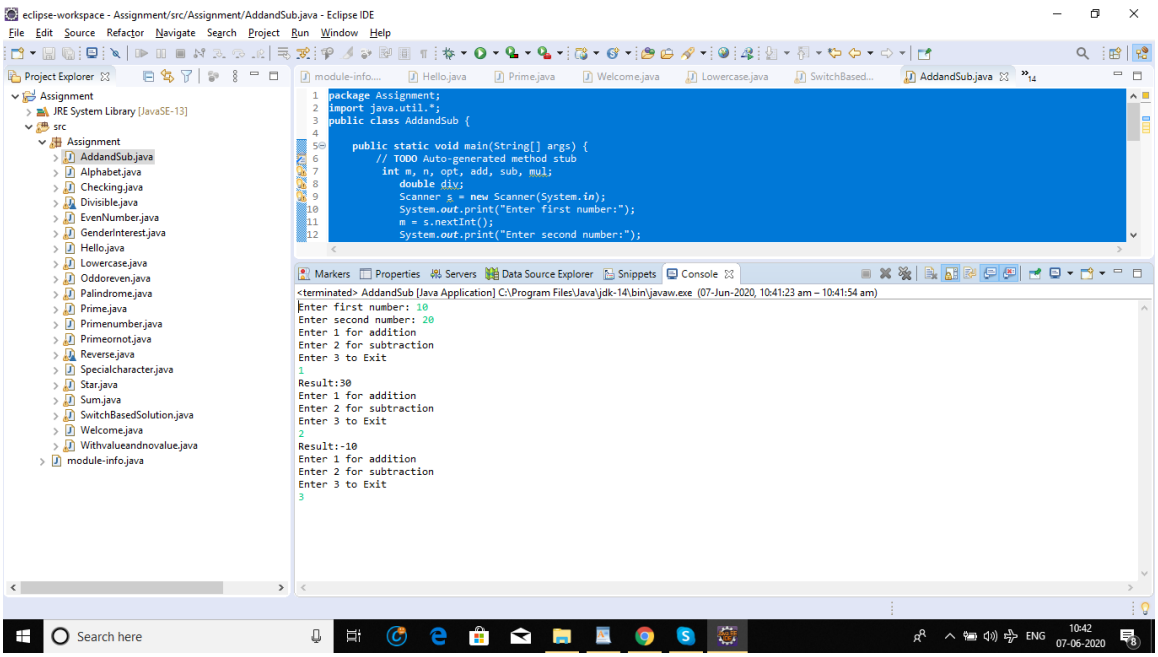




20. Add and Sub

```
package Assignment;

import java.util.*;

public class AddandSub {


	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int m, n, opt, add, sub, mul;
		double div;
		Scanner s = new Scanner(System.in);
		System.out.print("Enter first number:");
		m = s.nextInt();
		System.out.print("Enter second number:");
		n = s.nextInt();
		while(true)
```

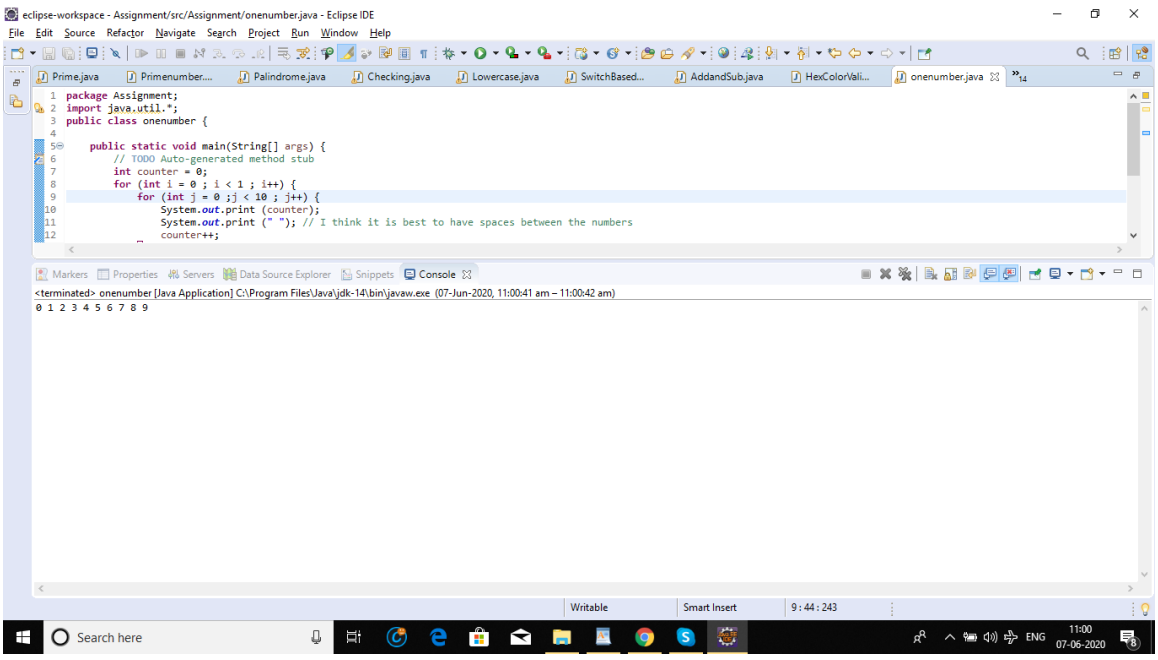
```
            {
                System.out.println("Enter 1 for addition");
                System.out.println("Enter 2 for subtraction");
                System.out.println("Enter 3 to Exit");
                opt = s.nextInt();
                switch(opt)
                {
                    case 1:
                    add = m + n;
                    System.out.println("Result:"+add);
                    break;

                    case 2:
                    sub = m - n;
                    System.out.println("Result:"+sub);
                    break;
                    case 3:
                    System.exit(0);
                }
            }


    }

}
```



10 . One to ten number

```
package Assignment;

import java.util.*;

public class onenumber {


	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int counter = 0;
		for (int i = 0 ; i < 1 ; i++) {
		    for (int j = 0 ;j < 10 ; j++) {
		        System.out.print (counter);
		        System.out.print (" "); // I think it is best to have spaces between
the numbers
		        counter++;
		    }
		    //after printing 10 numbers, go to a new line
		    System.out.println ();
		}
	}
```

```
}
```

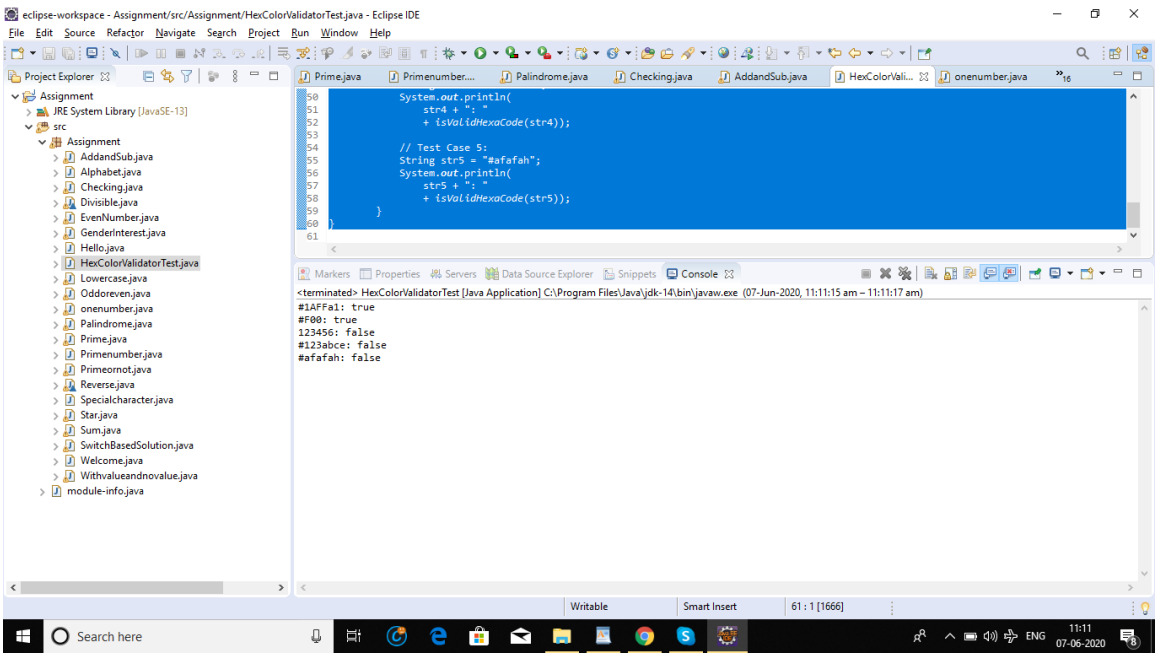


8. color CODE

```
package Assignment;

import java.util.regex.*;
```

```java
public class HexColorValidatorTest {
       public static boolean isValidHexaCode(String str)
    {
        // Regex to check valid hexadecimal color code.
        String regex = "^#([A-Fa-f0-9]{6}|[A-Fa-f0-9]{3})$";

        // Compile the ReGex
        Pattern p = Pattern.compile(regex);

        // If the string is empty
        // return false
        if (str == null) {
            return false;
        }

        // Pattern class contains matcher() method
        // to find matching between given string
        // and regular expression.
        Matcher m = p.matcher(str);

        // Return if the string
        // matched the ReGex
        return m.matches();
    }
        public static void main(String args[])
           {

               // Test Case 1:
               String str1 = "#1AFFa1";
               System.out.println(
```

```
            str1 + ": "
            + isValidHexaCode(str1));

        // Test Case 2:
        String str2 = "#F00";
        System.out.println(
            str2 + ": "
            + isValidHexaCode(str2));

        // Test Case 3:
        String str3 = "123456";
        System.out.println(
            str3 + ": "
            + isValidHexaCode(str3));

        // Test Case 4:
        String str4 = "#123abce";
        System.out.println(
            str4 + ": "
            + isValidHexaCode(str4));

        // Test Case 5:
        String str5 = "#afafah";
        System.out.println(
            str5 + ": "
            + isValidHexaCode(str5));
    }
}
```


eclipse-workspace - Assignment/src/Assignment/HexColorValidatorTest.java - Eclipse IDE
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module-info.java
Prime.java
Primenumber....
Palindrome.java
Checking.java
AddandSub.java
HexColorVali...
onenumber.java
System.out.println(
str4 + ": "
+ isValidHexaCode(str4));
// Test Case 5:
String str5 = "#afafah";
System.out.println(
str5 + ": "
+ isValidHexaCode(str5));
}
}
Markers Properties Servers Data Source Explorer Snippets Console
<terminated> HexColorValidatorTest [Java Application] C:\Program Files\Java\jdk-14\bin\javaw.exe (07-Jun-2020, 11:11:15 am – 11:11:17 am)
#1AFFa1: true
#F00: true
123456: false
#123abce: false
#afafah: false
Writable
Smart Insert
61 : 1 [1666]
Search here
ENG
11:11
07-06-2020