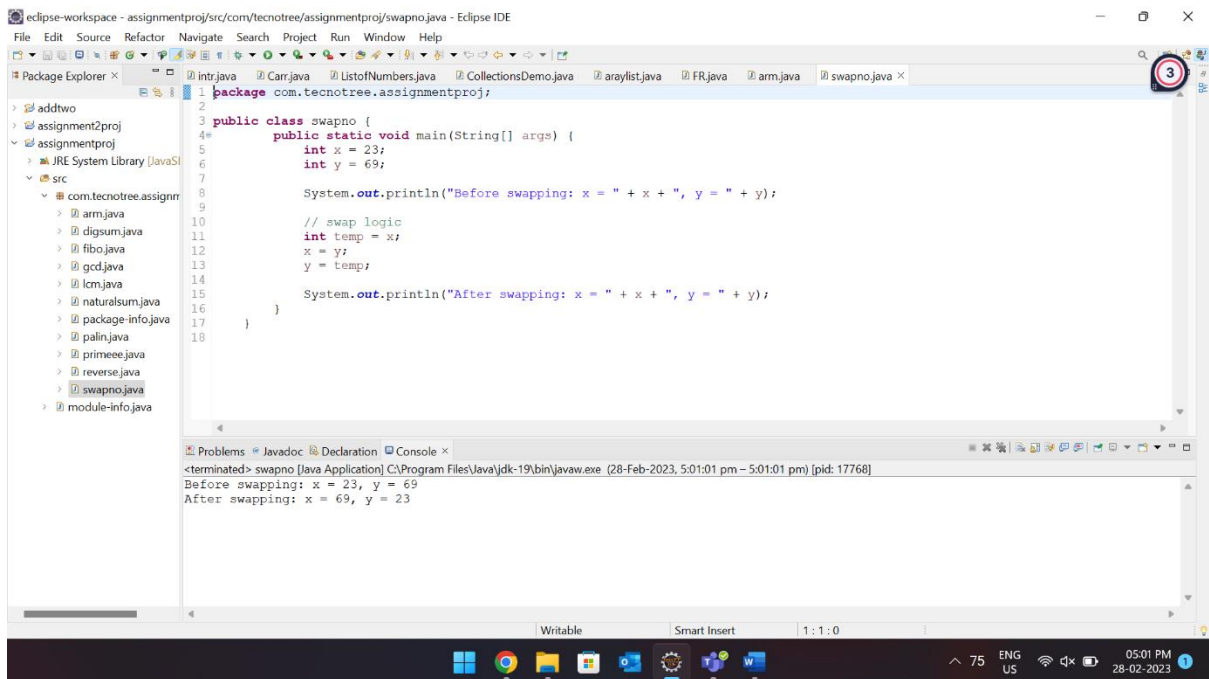


1) swap - <https://codeshare.io/0gv4bv>



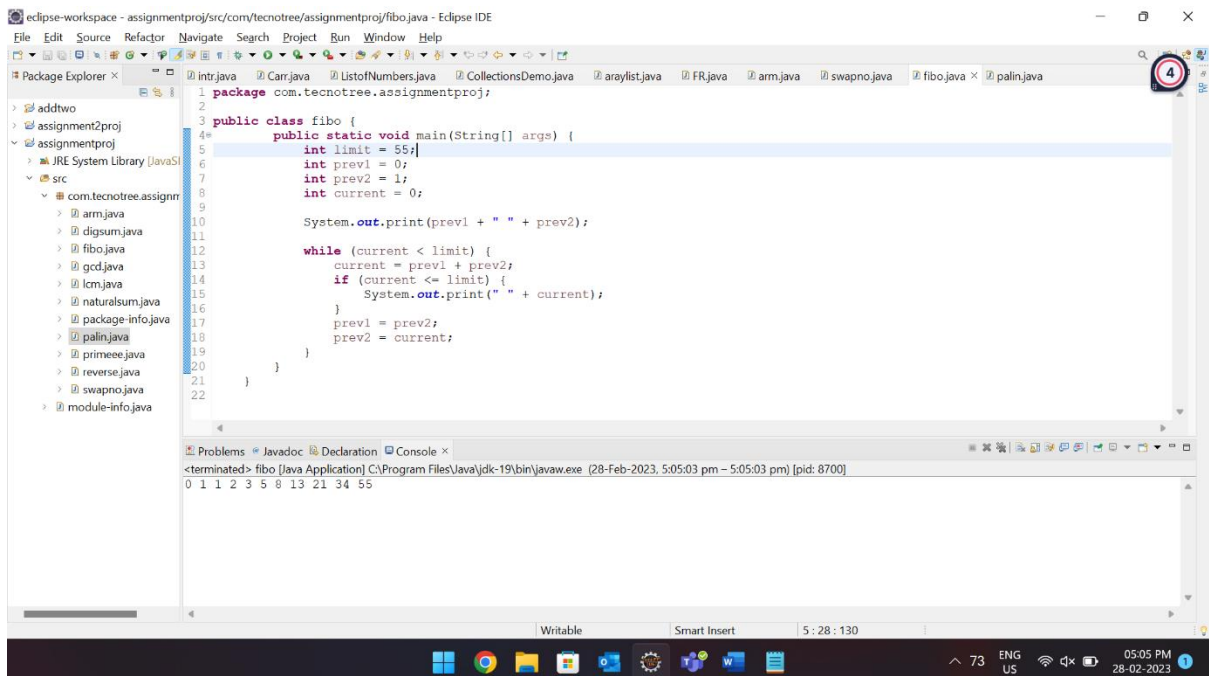
The screenshot shows the Eclipse IDE with a Java project named 'assignmentproj'. The 'Package Explorer' on the left shows the project structure. The main editor displays the code for 'swapno.java' in the 'com.tecnotree.assignmentproj' package. The code is as follows:

```
1 package com.tecnotree.assignmentproj;
2
3 public class swapno {
4     public static void main(String[] args) {
5         int x = 23;
6         int y = 69;
7
8         System.out.println("Before swapping: x = " + x + ", y = " + y);
9
10        // swap logic
11        int temp = x;
12        x = y;
13        y = temp;
14
15        System.out.println("After swapping: x = " + x + ", y = " + y);
16    }
17 }
18
```

The 'Console' at the bottom shows the output of the program:

```
<terminated> swapno [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:01:01 pm - 5:01:01 pm) [pid: 17768]
Before swapping: x = 23, y = 69
After swapping: x = 69, y = 23
```

2) fibo - <https://codeshare.io/3AXbKg>



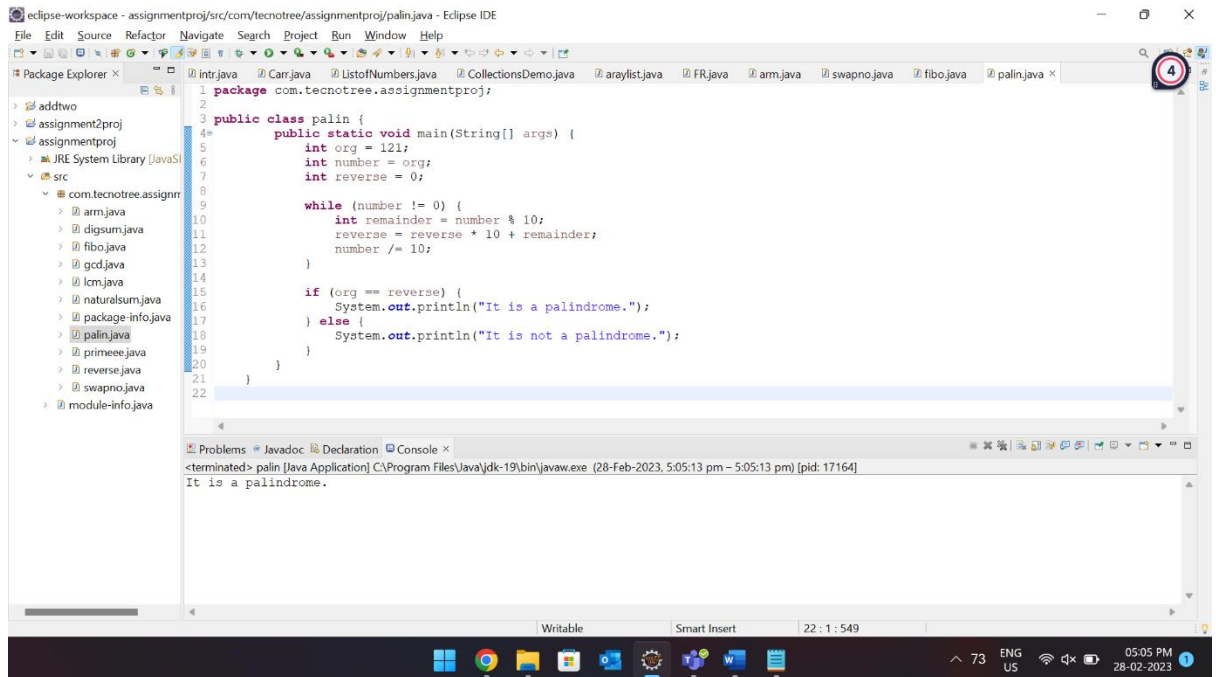
The screenshot shows the Eclipse IDE with a Java project named 'assignmentproj'. The 'Package Explorer' on the left shows the project structure. The main editor displays the code for 'fibo.java' in the 'com.tecnotree.assignmentproj' package. The code is as follows:

```
1 package com.tecnotree.assignmentproj;
2
3 public class fibo {
4     public static void main(String[] args) {
5         int limit = 55;
6         int prev1 = 0;
7         int prev2 = 1;
8         int current = 0;
9
10        System.out.print(prev1 + " " + prev2);
11
12        while (current < limit) {
13            current = prev1 + prev2;
14            if (current <= limit) {
15                System.out.print(" " + current);
16            }
17            prev1 = prev2;
18            prev2 = current;
19        }
20    }
21 }
22
```

The 'Console' at the bottom shows the output of the program:

```
<terminated> fibo [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:05:03 pm - 5:05:03 pm) [pid: 8700]
0 1 1 2 3 5 8 13 21 34 55
```

3) palin - <https://codeshare.io/X8E4OK>

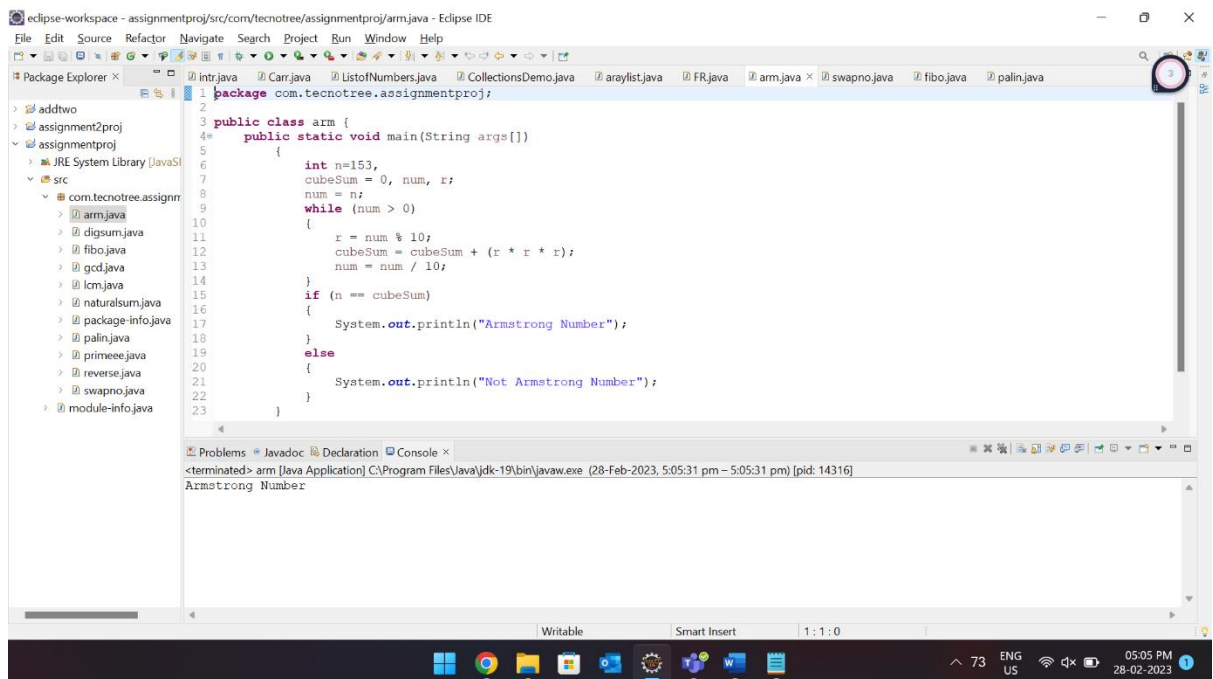


```
1 package com.tecnotree.assignmentproj;
2
3 public class palin {
4     public static void main(String[] args) {
5         int org = 121;
6         int number = org;
7         int reverse = 0;
8
9         while (number != 0) {
10             int remainder = number % 10;
11             reverse = reverse * 10 + remainder;
12             number /= 10;
13         }
14
15         if (org == reverse) {
16             System.out.println("It is a palindrome.");
17         } else {
18             System.out.println("It is not a palindrome.");
19         }
20     }
21 }
22
```

Problems Javadoc Declaration Console x

<terminated> palin [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:05:13 pm - 5:05:13 pm) [pid: 17164]
It is a palindrome.

4) arm - <https://codeshare.io/bvORJq>

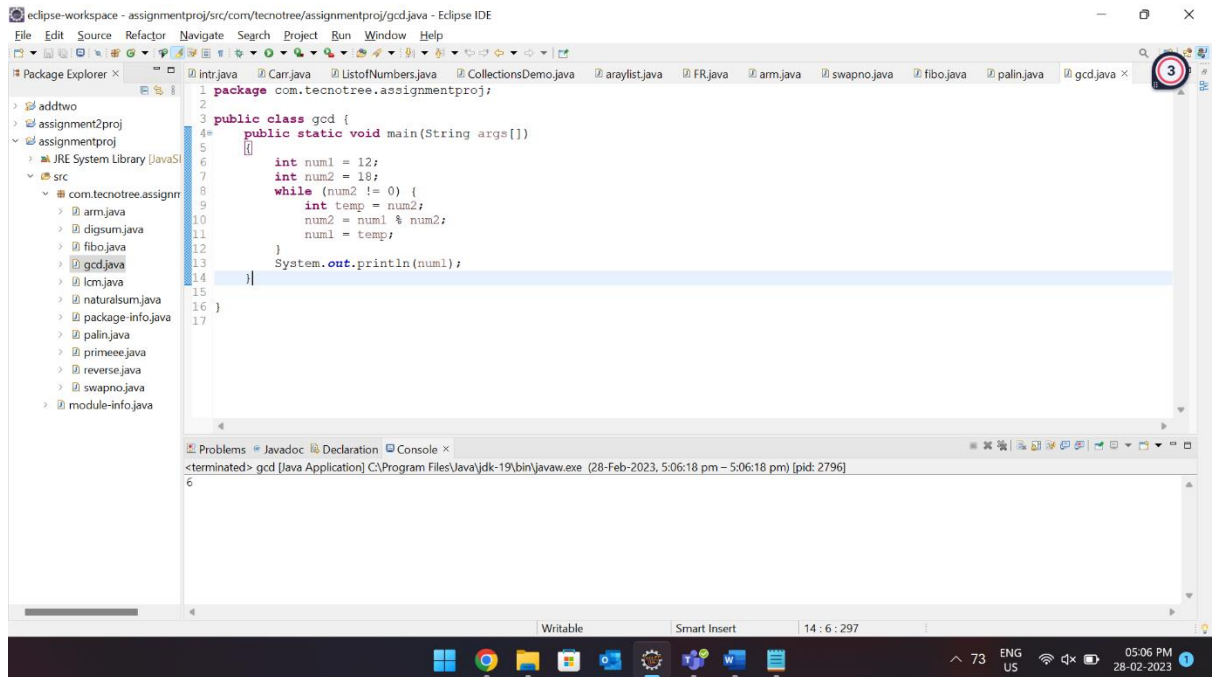


```
1 package com.tecnotree.assignmentproj;
2
3 public class arm {
4     public static void main(String args[])
5     {
6         int n=153,
7         cubeSum = 0, num, r;
8         num = n;
9         while (num > 0)
10         {
11             r = num % 10;
12             cubeSum = cubeSum + (r * r * r);
13             num = num / 10;
14         }
15         if (n == cubeSum)
16         {
17             System.out.println("Armstrong Number");
18         }
19         else
20         {
21             System.out.println("Not Armstrong Number");
22         }
23     }
24 }
25
```

Problems Javadoc Declaration Console x

<terminated> arm [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:05:31 pm - 5:05:31 pm) [pid: 14316]
Armstrong Number

5) gcd - <https://codeshare.io/LwE87p>



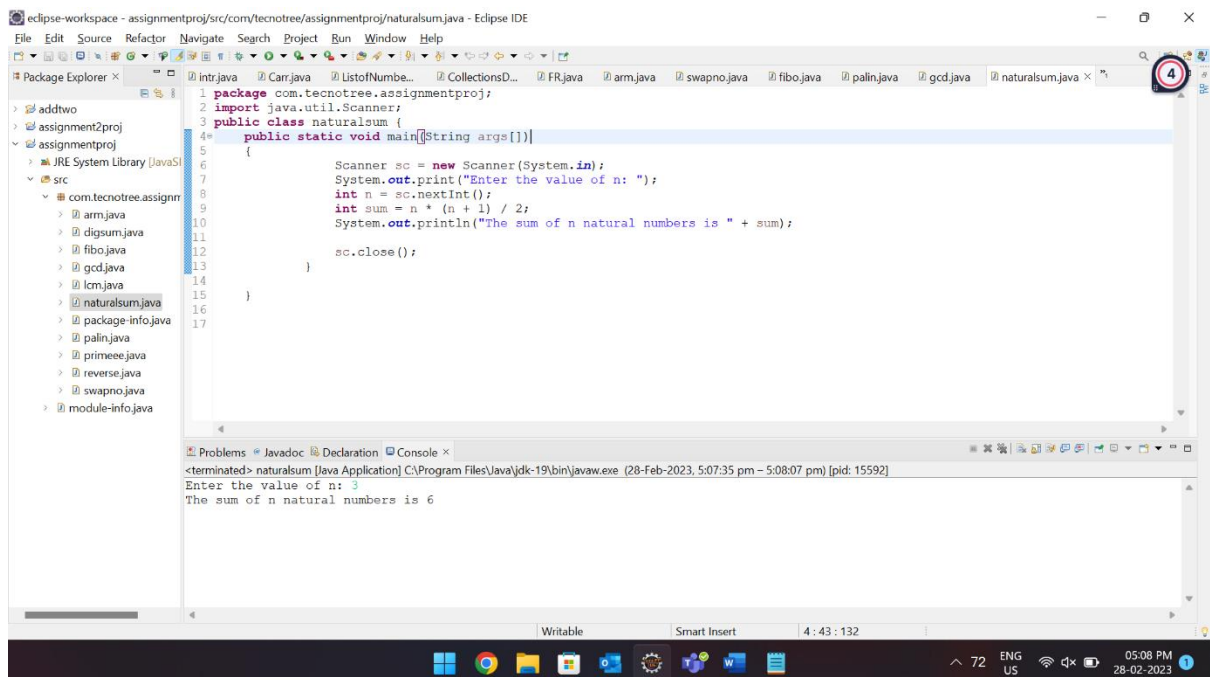
```
1 package com.tecnote.assignmentproj;
2
3 public class gcd {
4     public static void main(String args[])
5     {
6         int num1 = 12;
7         int num2 = 18;
8         while (num2 != 0) {
9             int temp = num2;
10            num2 = num1 % num2;
11            num1 = temp;
12        }
13        System.out.println(num1);
14    }
15 }
16
17
```

Problems Javadoc Declaration Console x

<terminated> gcd [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:06:18 pm - 5:06:18 pm) [pid: 2796]

6

6) natural sum - <https://codeshare.io/RbvZBE>



```
1 package com.tecnote.assignmentproj;
2 import java.util.Scanner;
3 public class naturalsum {
4     public static void main(String args[])
5     {
6         Scanner sc = new Scanner(System.in);
7         System.out.print("Enter the value of n: ");
8         int n = sc.nextInt();
9         int sum = n * (n + 1) / 2;
10        System.out.println("The sum of n natural numbers is " + sum);
11
12        sc.close();
13    }
14 }
15
16
17
```

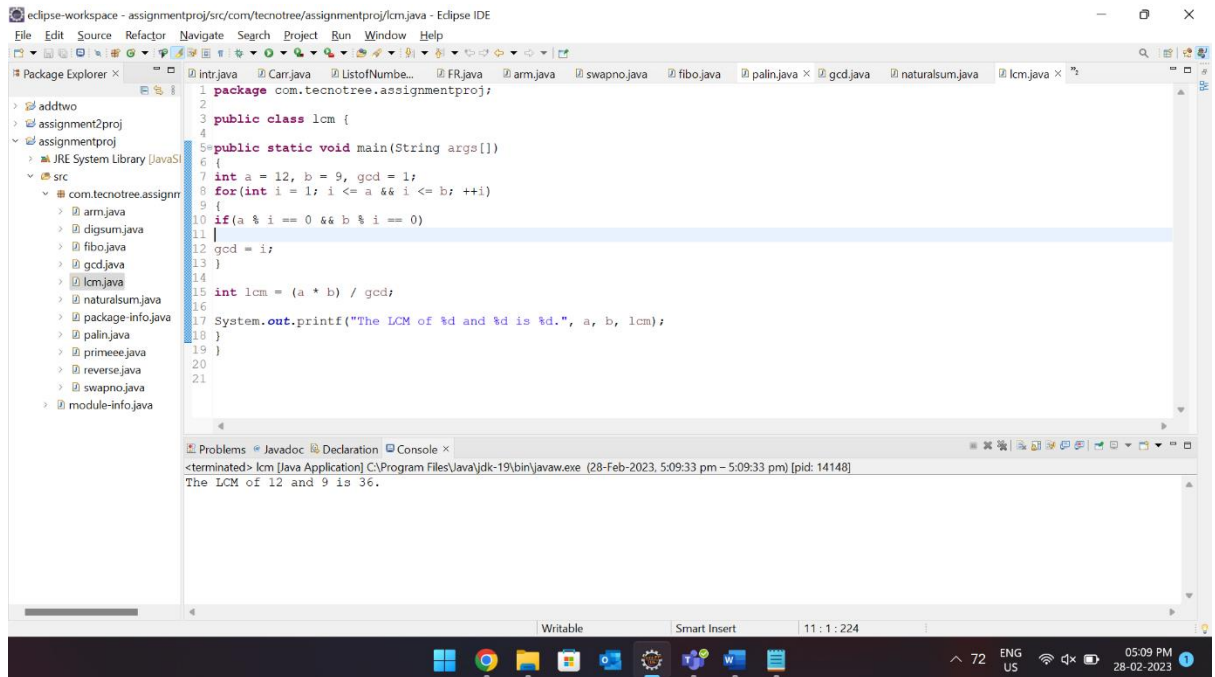
Problems Javadoc Declaration Console x

<terminated> naturalsum [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:07:35 pm - 5:08:07 pm) [pid: 15592]

Enter the value of n: 3

The sum of n natural numbers is 6

7) lcm - <https://codeshare.io/QnEqmQ>

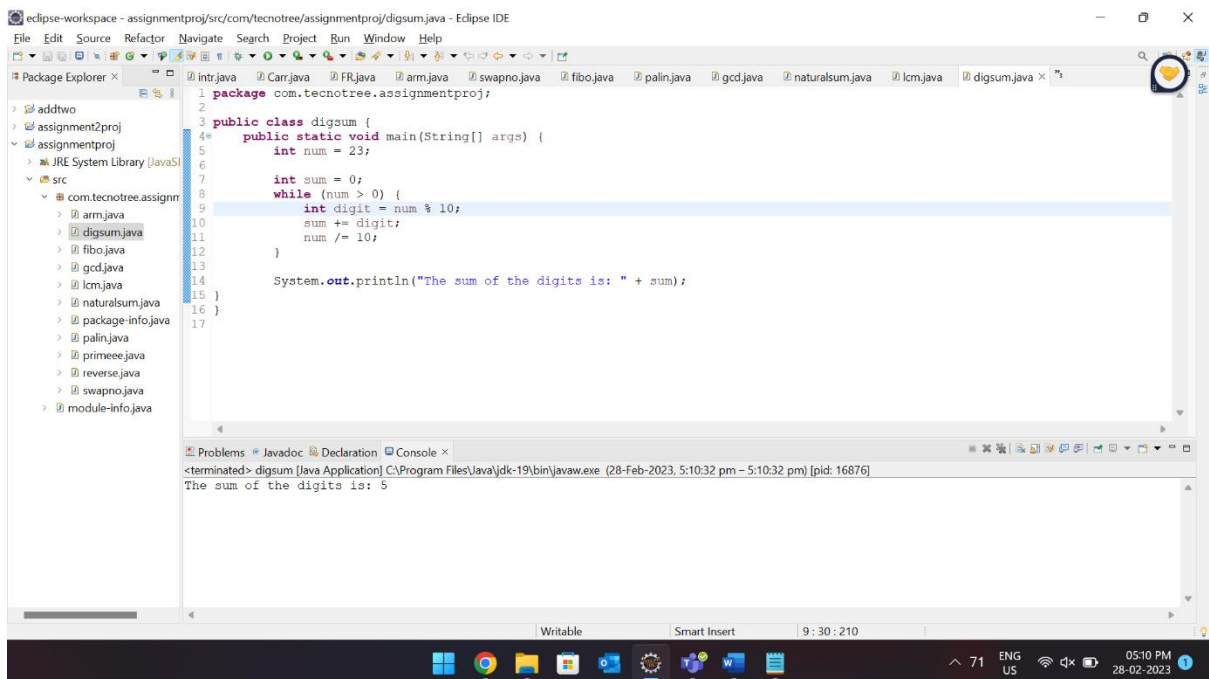


The screenshot shows the Eclipse IDE with a Java project named 'assignment2proj'. The 'Package Explorer' on the left shows the project structure, including a 'src' package with several Java files. The 'lcm.java' file is selected and its code is displayed in the editor. The code calculates the Least Common Multiple (LCM) of two numbers, 12 and 9, by finding their Greatest Common Divisor (GCD) and then using the formula $LCM(a, b) = \frac{a * b}{GCD(a, b)}$. The console output shows the result: 'The LCM of 12 and 9 is 36.'

```
1 package com.tecnotee.assignmentproj;
2
3 public class lcm {
4
5     public static void main(String args[])
6     {
7         int a = 12, b = 9, gcd = 1;
8         for(int i = 1; i <= a && i <= b; ++i)
9         {
10             if(a % i == 0 && b % i == 0)
11             {
12                 gcd = i;
13             }
14         }
15         int lcm = (a * b) / gcd;
16
17         System.out.printf("The LCM of %d and %d is %d.", a, b, lcm);
18     }
19 }
20
21
```

Console Output: <terminated> lcm [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:09:33 pm - 5:09:33 pm) [pid: 14148]
The LCM of 12 and 9 is 36.

8) sum dig - <https://codeshare.io/dwQxkD>

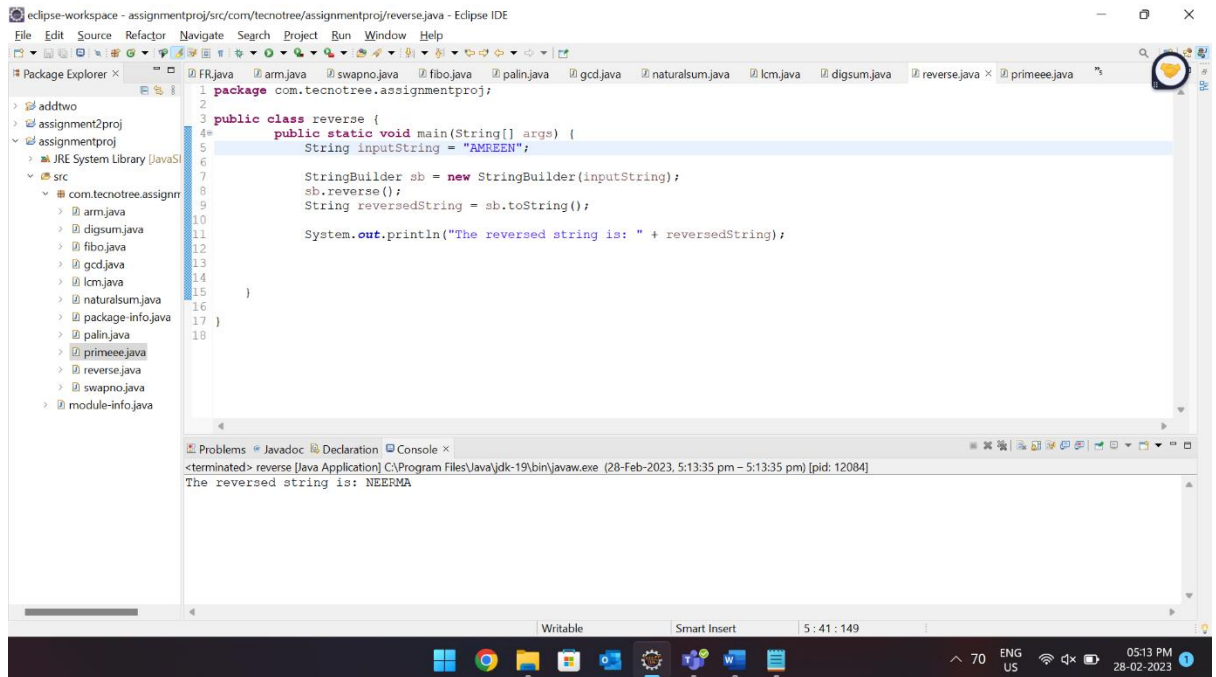


The screenshot shows the Eclipse IDE with a Java project named 'assignment2proj'. The 'Package Explorer' on the left shows the project structure, including a 'src' package with several Java files. The 'digsum.java' file is selected and its code is displayed in the editor. The code calculates the sum of the digits of a number, 23, by repeatedly extracting the last digit and adding it to a running sum. The console output shows the result: 'The sum of the digits is: 5'.

```
1 package com.tecnotee.assignmentproj;
2
3 public class digsum {
4     public static void main(String[] args) {
5         int num = 23;
6
7         int sum = 0;
8         while (num > 0) {
9             int digit = num % 10;
10            sum += digit;
11            num /= 10;
12        }
13
14        System.out.println("The sum of the digits is: " + sum);
15    }
16 }
17
```

Console Output: <terminated> digsum [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:10:32 pm - 5:10:32 pm) [pid: 16876]
The sum of the digits is: 5

9) reverse - <https://codeshare.io/zyAYXk>



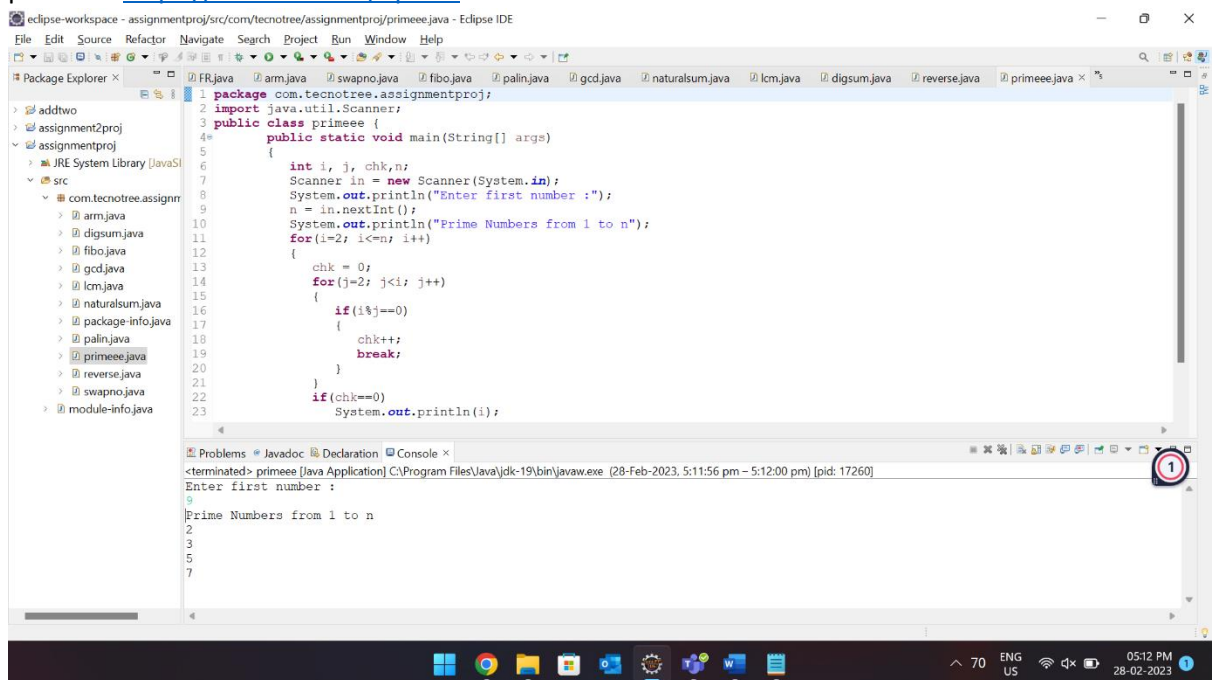
```
1 package com.tecnotree.assignmentproj;
2
3 public class reverse {
4     public static void main(String[] args) {
5         String inputString = "AMREEN";
6
7         StringBuilder sb = new StringBuilder(inputString);
8         sb.reverse();
9         String reversedString = sb.toString();
10
11         System.out.println("The reversed string is: " + reversedString);
12     }
13 }
14
15
16
17
18
```

Problems Javadoc Declaration Console x

<terminated> reverse [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:13:35 pm - 5:13:35 pm) [pid: 12084]

The reversed string is: NEERMA

10) prime n - <https://codeshare.io/8pLL7d>



```
1 package com.tecnotree.assignmentproj;
2 import java.util.Scanner;
3 public class primeee {
4     public static void main(String[] args) {
5         int i, j, chk, n;
6         Scanner in = new Scanner(System.in);
7         System.out.println("Enter first number :");
8         n = in.nextInt();
9         System.out.println("Prime Numbers from 1 to n");
10        for (i=2; i<=n; i++)
11        {
12            chk = 0;
13            for (j=2; j<=i; j++)
14            {
15                if (i%j==0)
16                {
17                    chk++;
18                    break;
19                }
20            }
21            if (chk==0)
22                System.out.println(i);
23        }
24    }
25 }
```

Problems Javadoc Declaration Console x

<terminated> primeee [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:11:56 pm - 5:12:00 pm) [pid: 17260]

Enter first number :
9

Prime Numbers from 1 to n

2
3
5
7