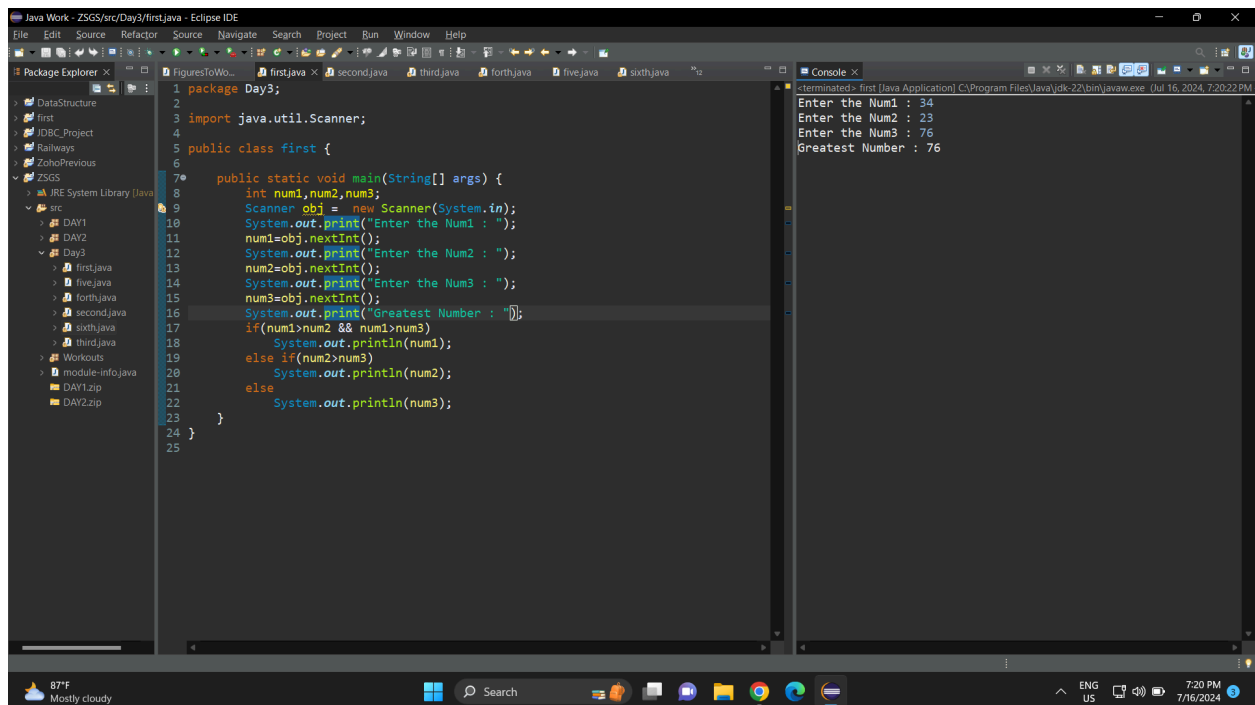


1. Take three numbers from the user and print the greatest number.



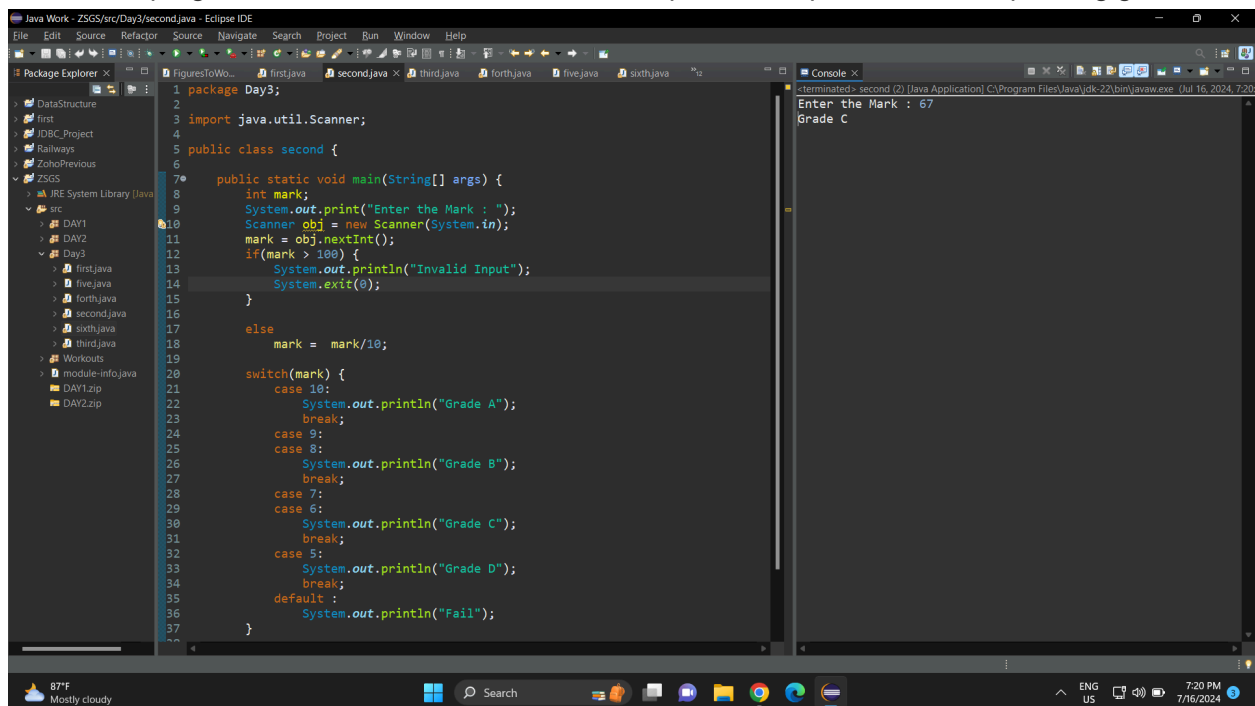
The screenshot shows the Eclipse IDE with a Java project named 'ZSGS'. The 'Package Explorer' on the left shows a package named 'Day3' containing several Java files. The 'first.java' file is open in the editor. The code in 'first.java' is as follows:

```
1 package Day3;
2
3 import java.util.Scanner;
4
5 public class first {
6
7     public static void main(String[] args) {
8         int num1, num2, num3;
9         Scanner obj = new Scanner(System.in);
10        System.out.print("Enter the Num1 : ");
11        num1=obj.nextInt();
12        System.out.print("Enter the Num2 : ");
13        num2=obj.nextInt();
14        System.out.print("Enter the Num3 : ");
15        num3=obj.nextInt();
16        System.out.print("Greatest Number : ");
17        if(num1>num2 && num1>num3)
18            System.out.println(num1);
19        else if(num2>num3)
20            System.out.println(num2);
21        else
22            System.out.println(num3);
23    }
24 }
25
```

The 'Console' on the right shows the output of the program:

```
<terminated> first [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (Jul 16, 2024, 7:20:22 PM)
Enter the Num1 : 34
Enter the Num2 : 23
Enter the Num3 : 76
Greatest Number : 76
```

2. Create a program that takes a student's score as input and outputs their corresponding grade.



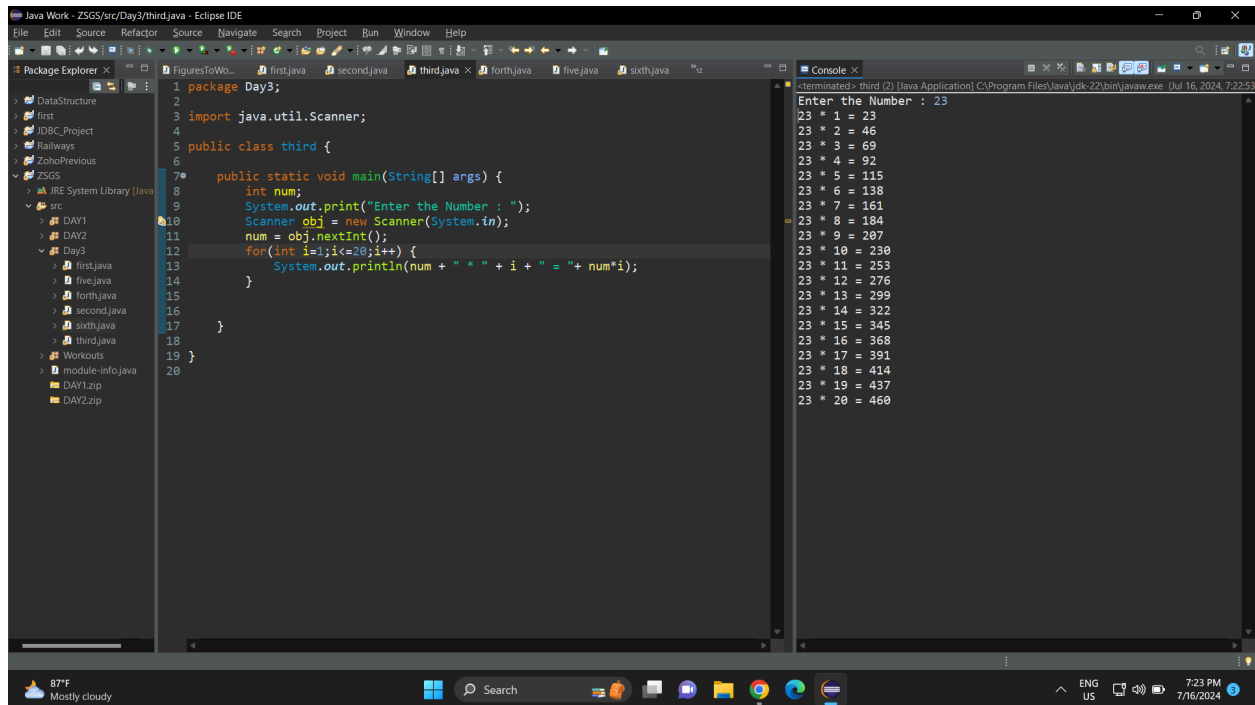
The screenshot shows the Eclipse IDE with the same 'ZSGS' project. The 'second.java' file is open in the editor. The code in 'second.java' is as follows:

```
1 package Day3;
2
3 import java.util.Scanner;
4
5 public class second {
6
7     public static void main(String[] args) {
8         int mark;
9         System.out.print("Enter the Mark : ");
10        Scanner obj = new Scanner(System.in);
11        mark = obj.nextInt();
12        if(mark > 100) {
13            System.out.println("Invalid Input");
14            System.exit(0);
15        }
16        else
17            mark = mark/10;
18
19        switch(mark) {
20            case 10:
21                System.out.println("Grade A");
22                break;
23            case 9:
24            case 8:
25                System.out.println("Grade B");
26                break;
27            case 7:
28            case 6:
29                System.out.println("Grade C");
30                break;
31            case 5:
32                System.out.println("Grade D");
33                break;
34            default :
35                System.out.println("Fail");
36        }
37    }
38 }
```

The 'Console' on the right shows the output of the program:

```
<terminated> second (2) [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (Jul 16, 2024, 7:20:22 PM)
Enter the Mark : 67
Grade C
```

3. Write a program to print multiplication table of a given number in a neat format



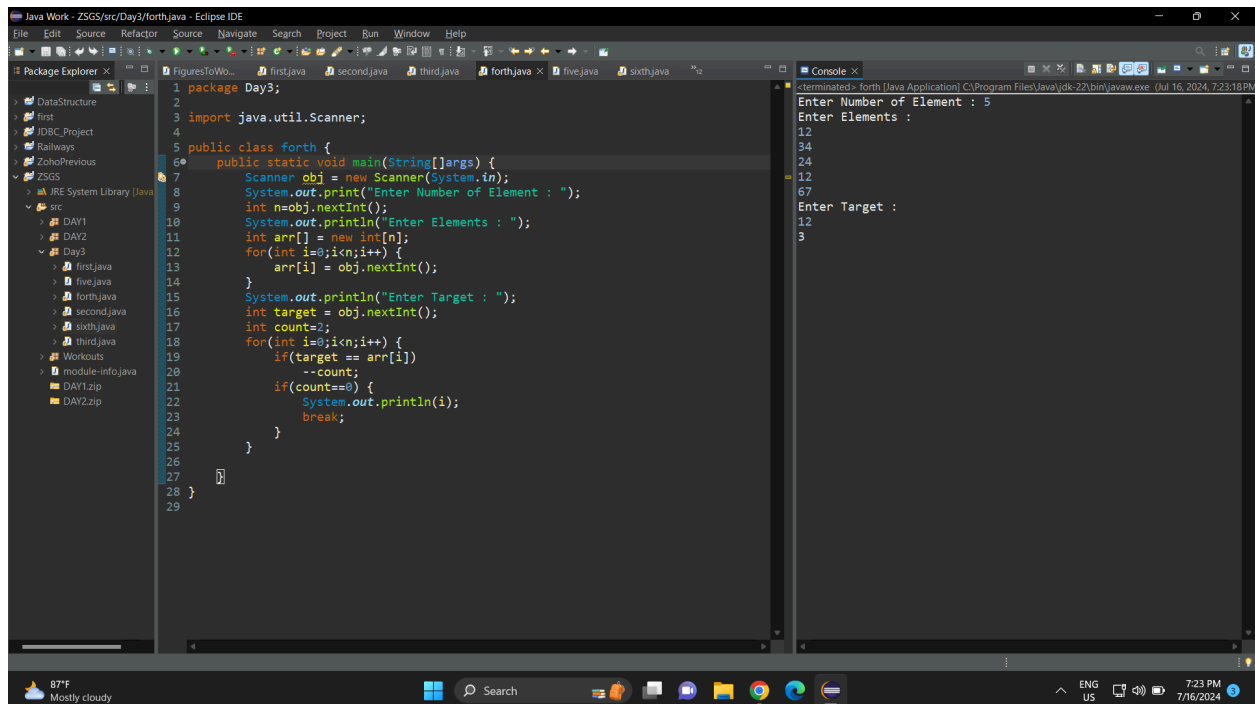
The screenshot shows the Eclipse IDE with a Java project named 'ZSGS'. The 'Package Explorer' on the left shows the project structure. The 'Editor' window displays the source code for 'third.java'. The 'Console' window on the right shows the output of the program.

```
1 package Day3;
2
3 import java.util.Scanner;
4
5 public class third {
6
7     public static void main(String[] args) {
8         int num;
9         System.out.print("Enter the Number : ");
10        Scanner obj = new Scanner(System.in);
11        num = obj.nextInt();
12        for(int i=1;i<=20;i++) {
13            System.out.println(num + " * " + i + " = " + num*i);
14        }
15    }
16 }
17
18
19
20
```

Console Output:

```
Enter the Number : 23
23 * 1 = 23
23 * 2 = 46
23 * 3 = 69
23 * 4 = 92
23 * 5 = 115
23 * 6 = 138
23 * 7 = 161
23 * 8 = 184
23 * 9 = 207
23 * 10 = 230
23 * 11 = 253
23 * 12 = 276
23 * 13 = 299
23 * 14 = 322
23 * 15 = 345
23 * 16 = 368
23 * 17 = 391
23 * 18 = 414
23 * 19 = 437
23 * 20 = 460
```

4. Write a program to find second occurrence of a given number in an array



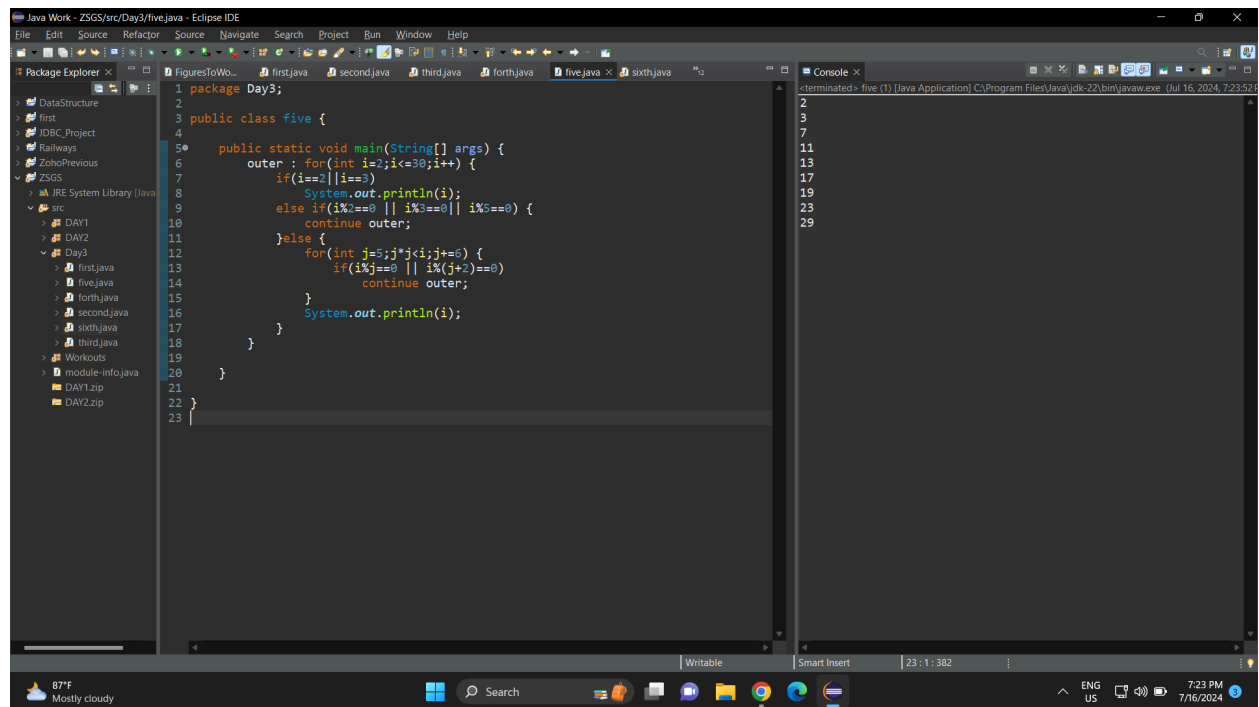
The screenshot shows the Eclipse IDE with a Java project named 'ZSGS'. The 'Package Explorer' on the left shows the project structure. The 'Editor' window displays the source code for 'forth.java'. The 'Console' window on the right shows the output of the program.

```
1 package Day3;
2
3 import java.util.Scanner;
4
5 public class forth {
6
7     public static void main(String[] args) {
8         Scanner obj = new Scanner(System.in);
9         System.out.print("Enter Number of Element : ");
10        int n=obj.nextInt();
11        System.out.println("Enter Elements : ");
12        int arr[] = new int[n];
13        for(int i=0;i<n;i++) {
14            arr[i] = obj.nextInt();
15        }
16        System.out.println("Enter Target : ");
17        int target = obj.nextInt();
18        int count=2;
19        for(int i=0;i<n;i++) {
20            if(target == arr[i])
21                --count;
22            if(count==0) {
23                System.out.println(i);
24                break;
25            }
26        }
27    }
28 }
29
```

Console Output:

```
Enter Number of Element : 5
Enter Elements :
12
34
24
67
Enter Target :
12
3
```

5. Write a program to print prime numbers between 1 to 30

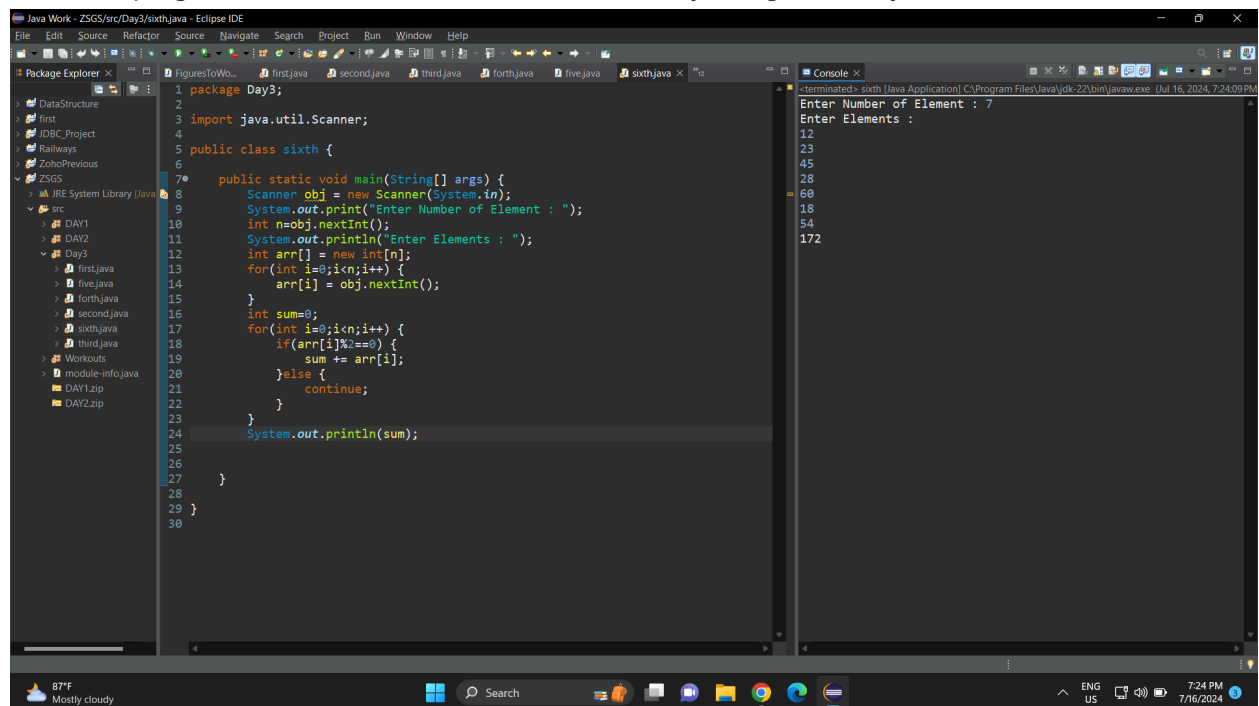


```
1 package Day3;
2
3 public class five {
4
5     public static void main(String[] args) {
6         outer : for(int i=2; i<=30; i++) {
7             if(i==2 || i==3)
8                 System.out.println(i);
9             else if(i%2==0 || i%3==0 || i%5==0) {
10                 continue outer;
11             } else {
12                 for(int j=5; j*j<i; j+=6) {
13                     if(i%j==0 || i%(j+2)==0)
14                         continue outer;
15                 }
16                 System.out.println(i);
17             }
18         }
19     }
20 }
21
22
23
```

Console Output:

```
<terminated> five [1] [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (Jul 16, 2024, 7:23:52)
2
3
5
7
11
13
17
19
23
29
```

6. Write a program to find the sum of even numbers only in a given array. Use continue.



```
1 package Day3;
2
3 import java.util.Scanner;
4
5 public class sixth {
6
7     public static void main(String[] args) {
8         Scanner obj = new Scanner(System.in);
9         System.out.print("Enter Number of Element : ");
10         int n=obj.nextInt();
11         System.out.println("Enter Elements : ");
12         int arr[] = new int[n];
13         for(int i=0; i<n; i++) {
14             arr[i] = obj.nextInt();
15         }
16         int sum=0;
17         for(int i=0; i<n; i++) {
18             if(arr[i]%2==0) {
19                 sum += arr[i];
20             } else {
21                 continue;
22             }
23         }
24         System.out.println(sum);
25
26
27     }
28 }
29
30
```

Console Output:

```
<terminated> sixth [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (Jul 16, 2024, 7:24:09 PM)
Enter Number of Element : 7
Enter Elements :
12
23
45
60
28
54
172
```