

Java Assignment - 1

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1. Write a Java program to print the product of two numbers.

<https://codeshare.io/4eoQb3>

The screenshot shows a Java code editor and a terminal window. The code editor displays a file named 'productoftwonumbers.java' with the following content:

```
productoftwonumbers.java ×
1 package javaday2training;
2 import java.util.Scanner;
3
4 public class productoftwonumbers {
5
6     public static void main(String[] args) {
7         // TODO Auto-generated method stub
8
9
10        Scanner scanner = new Scanner(System.in);
11
12        System.out.print("Enter the first number: ");
13        int num1 = scanner.nextInt();
14
15        System.out.print("Enter the second number: ");
16        int num2 = scanner.nextInt();
17
18        int product = num1 * num2;
19
20        System.out.println("The product of " + num1 + " and " + num2 + " is " + product);
21    }
22
23
24 }
```

The terminal window below shows the execution of the program:

```
Console × Problems × Debug Shell
<terminated> productoftwonumbers [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 9:52:43 am – 9:52:49 am) [pid: 13092]
Enter the first number: 20
Enter the second number: 30
The product of 20 and 30 is 600
```

2. Write a Java program to calculate the average of three numbers.

<https://codeshare.io/qPmDOM>

The screenshot shows a Java code editor with the file 'averageofthreenum.java' open. The code prompts the user to enter three numbers and calculates their average. Below the editor is a terminal window showing the execution of the program and its output.

```
averageofthreenum.java
1 package javaday2training;
2 import java.util.Scanner;
3
4 public class averageofthreenum {
5
6     public static void main(String[] args) {
7         // TODO Auto-generated method stub
8
9             Scanner scanner = new Scanner(System.in);
10
11             System.out.print("Enter the first number: ");
12             double num1 = scanner.nextDouble();
13
14             System.out.print("Enter the second number: ");
15             double num2 = scanner.nextDouble();
16
17             System.out.print("Enter the third number: ");
18             double num3 = scanner.nextDouble();
19
20             double average = (num1 + num2 + num3) / 3;
21
22             System.out.println("The average of " + num1 + ", " + num2 + ", and " + num3 + " is " + average);
23     }
24
25
26 }
```

Console

```
<terminated> averageofthreenum [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 9:55:07 am – 9:55:14 am) [pid: 9248]
Enter the first number: 10
Enter the second number: 20
Enter the third number: 30
The average of 10.0, 20.0, and 30.0 is 20.0
```

3. Write a Java program to check whether a given number is even or odd.

<https://codeshare.io/pqkmX4>

The screenshot shows a Java code editor with the file 'evenorodd.java' open. The code uses a Scanner to get a number from the user and then checks if it is even or odd using an if-else statement. Below the editor is a terminal window showing the execution of the program and its output.

```
evenorodd.java
1 package javaday2training;
2 import java.util.Scanner;
3
4 public class evenorodd {
5
6     public static void main(String[] args) {
7         // TODO Auto-generated method stub
8
9
10        Scanner scanner = new Scanner(System.in);
11
12        System.out.print("Enter a number: ");
13        int num = scanner.nextInt();
14
15        if (num % 2 == 0) {
16            System.out.println(num + " is even");
17        } else {
18            System.out.println(num + " is odd");
19        }
20    }
21
22 }
```

Console

```
<terminated> evenorodd [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 9:56:57 am – 9:57:04 am) [pid: 13172]
Enter a number: 02
2 is even
```

4. Write a Java program to check whether a given year is a leap year.

<https://codeshare.io/QnEzww>

The screenshot shows a Java code editor with a file named 'leapyear.java'. The code implements a simple leap year checker. It uses a Scanner to read a year from standard input, then checks if it's a leap year based on the rules (divisible by 4, not divisible by 100, or divisible by 400). The terminal window below shows the execution of the program, where it asks for a year, receives '2023', and then prints '2023 is not a leap year'.

```
leapyear.java
1 package javaday2training;
2 import java.util.Scanner;
3
4 public class leapyear {
5
6     public static void main(String[] args) {
7         // TODO Auto-generated method stub
8
9
10        Scanner scanner = new Scanner(System.in);
11
12        System.out.print("Enter a year: ");
13        int year = scanner.nextInt();
14
15        if ((year % 4 == 0 && year % 100 != 0) || year % 400 == 0) {
16            System.out.println(year + " is a leap year");
17        } else {
18            System.out.println(year + " is not a leap year");
19        }
20    }
21
22}
```

Console × Problems Debug Shell
<terminated> leapyear [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 9:58:55 am – 9:59:00 am) [pid: 15928]
Enter a year: 2023
2023 is not a leap year

5. Write a Java program to print the ASCII value of a given character.

<https://codeshare.io/zyA4LE>

The screenshot shows a Java code editor with a file named 'ASCII.java'. The code reads a character from standard input and prints its ASCII value. The terminal window below shows the execution of the program, where it asks for a character, receives 'S', and then prints 'The ASCII value of S is 83'.

```
ASCII.java
1 package javaday2training;
2 import java.util.Scanner;
3
4 public class ASCII {
5
6     public static void main(String[] args) {
7         // TODO Auto-generated method stub
8
9
10        Scanner scanner = new Scanner(System.in);
11
12        System.out.print("Enter a character: ");
13        char ch = scanner.next().charAt(0);
14
15        int asciiValue = ch;
16
17        System.out.println("The ASCII value of " + ch + " is " + asciiValue);
18    }
19
20}
21
22
```

Console × Problems Debug Shell
<terminated> ASCII [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 10:02:34 am – 10:02:39 am) [pid: 3276]
Enter a character: S
The ASCII value of S is 83

6. Write a Java program to convert Celsius to Fahrenheit.

<https://codeshare.io/mpbmwX>

The screenshot shows a Java code editor with two files: ASCII.java and Ctof.java. The Ctof.java file contains the following code:

```
1 package javaday2training;
2 import java.util.Scanner;
3
4 public class Ctof {
5
6     public static void main(String[] args) {
7         // TODO Auto-generated method stub
8
9
10        Scanner scanner = new Scanner(System.in);
11
12        System.out.print("Enter temperature in Celsius: ");
13        double celsius = scanner.nextDouble();
14
15        double fahrenheit = (celsius * 9/5) + 32;
16
17        System.out.println(celsius + " Celsius is equal to " + fahrenheit + " Fahrenheit");
18    }
19
20}
21
22
```

The console output shows the program running and outputting the conversion of 30 degrees Celsius to 86.0 degrees Fahrenheit.

7. Write a Java program to find the maximum of two numbers.

<https://codeshare.io/3AbzRz>

The screenshot shows a Java code editor with one file: maximumofnumber.java. The code is as follows:

```
4 public class maximumofnumber {
5
6     public static void main(String[] args) {
7         // TODO Auto-generated method stub
8
9
10        Scanner scanner = new Scanner(System.in);
11
12        System.out.print("Enter the first number: ");
13        int num1 = scanner.nextInt();
14
15        System.out.print("Enter the second number: ");
16        int num2 = scanner.nextInt();
17
18        int max;
19
20        if (num1 > num2) {
21            max = num1;
22        } else {
23            max = num2;
24        }
25
26        System.out.println("The maximum of " + num1 + " and " + num2 + " is " + max);
27
28    }
29}
```

The console output shows the program running and outputting the maximum of two numbers entered by the user.