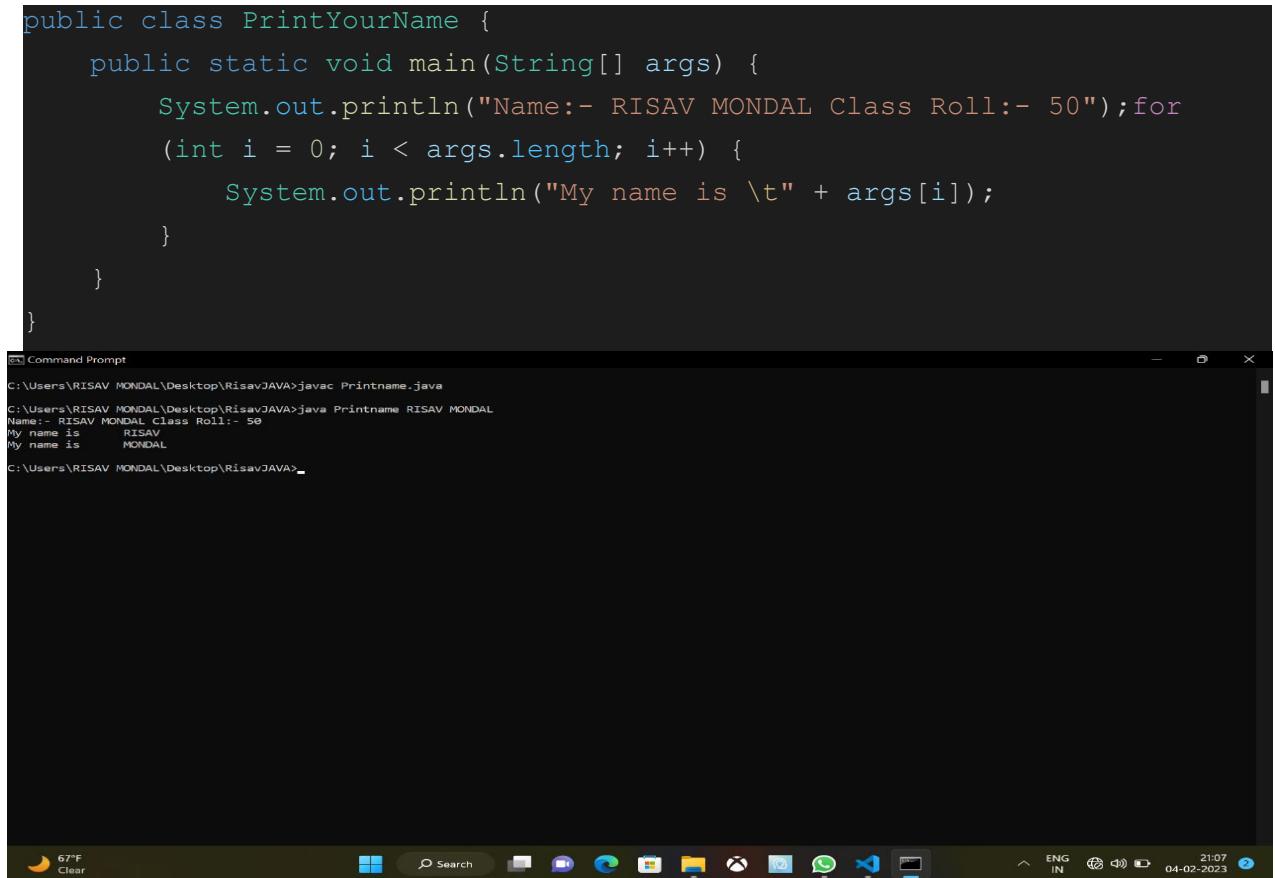


1. Write a Java Program to print your Name entered through the command line as an argument.

```
public class PrintYourName {  
    public static void main(String[] args) {  
        System.out.println("Name:- RISAV MONDAL Class Roll:- 50");  
        for (int i = 0; i < args.length; i++) {  
            System.out.println("My name is \t" + args[i]);  
        }  
    }  
}
```

Command Prompt

```
C:\Users\RISAV MONDAL\Desktop\RisavJAVA>javac Printname.java  
C:\Users\RISAV MONDAL\Desktop\RisavJAVA>java Printname RISAV MONDAL  
Name:- RISAV MONDAL Class Roll:- 50  
My name is RISAV  
My name is MONDAL  
C:\Users\RISAV MONDAL\Desktop\RisavJAVA>
```



2. Write a Java program to convert Temperature from Fahrenheit to Celsius and vice versa.

```
import java.util.Scanner;  
  
public class CtoF {  
    public static void main(String[] args)  
    {Scannerin=newScanner(System.in);  
        System.out.println("Name:- RISAV MONDAL Class Roll:-  
50");System.out.println("Enter the temperature in  
Celsius:\n");float c = in.nextFloat();  
        float f;  
        f = (float) ((c * 9 / 5) + 32);  
        System.out.println(c + " Celsius = " + f + " Fahrenheit");  
    }  
}
```

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** CelToFah.java - RisavJAVA - Visual Studio Code.
- Explorer:** Shows a folder named "RISAVJAVA" containing files: AddTwoNumber.java, CelToFah.java, leapyear.java, Printname.class, and Printnamejava.java. CelToFah.java is currently selected.
- Editor:** Displays the Java code for "CelToFah.java".
- Terminal:** Shows the command-line output of running the program. It includes the command used, the environment variables, and the execution results.
- Status Bar:** Shows the current file (Ln 10, Col 2), spaces (Spaces: 4), encoding (UTF-8), and date/time (04-02-2023).

```
import java.util.Scanner;

public class FtoC {
    public static void main(String[] args)
    {Scannersc=newScanner(System.in);
        System.out.println("Name:- RISAV MONDAL Class Roll:- 50");
        System.out.print("Input a degree in Fahrenheit: ");
        double fahrenheit = sc.nextDouble();

        double celsius = ((5 * (fahrenheit - 32.0)) / 9.0);
        System.out.println(fahrenheit+"degreeFahrenheitisequalto"+celsius+" in Celsius");
    }
}
```

```
FahToCel.java - RisavJAVA - Visual Studio Code
File Edit Selection View Go Run Terminal Help
OPEN EDITORS 1 unsaved
RISAVJAVA
J AddTwoNumber
J CelToFah.java
J FahToCel.java
J leapyear.java
J Printname.java
J Printname.java
Get Started J Printname.java J AddTwoNumber J CelToFah.java 1 J FahToCel.java 1
1 import java.util.Scanner;
2
3 public class FahToCel {
4     Run | Debug
5     public static void main(String[] args) { Scanner sc = new Scanner(System.in);
6     System.out.println("Name:- RISAV MONDAL Class Roll:- 50"); System.out.print("Input
7     double fahrenheit = sc.nextDouble();
8
9     double celsius = ((5 * (fahrenheit - 32.0)) / 9.0); System.out.println(fahrenheit + " de
10    ")
11 }
12
PROBLEMS 7 OUTPUT DEBUG CONSOLE TERMINAL
Name:- RISAV MONDAL Class Roll:- 50
Enter the temperature in Celsius::

40
40.0 Celsius = 104.0 Fahrenheit
PS C:\Users\RISAV MONDAL\Desktop\RisavJAVA> c:; cd 'c:\Users\RISAV MONDAL\Desktop\RisavJAVA'; & 'C:\Program Fi
lets\Java\jdk-17.0.5\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\RISAV MONDAL\Appdat
e\Roaming\Code\User\workspaceStorage\52839eac2bb9a034e23dedffe4291ecf\redhat.java\jdt_ws\RisavJAVA_1efaf5242\bin
' 'FahToCel'
Name:- RISAV MONDAL Class Roll:- 50
Input a degree in Fahrenheit: 104
104.0 degree Fahrenheit is equal to 40.0 in Celsius
PS C:\Users\RISAV MONDAL\Desktop\RisavJAVA>
+ ^ x
Run: FahTo...
Run: CelToF...
Ln 5, Col 40 Spaces: 4 UTF-8 CRLF ⓘ Java ⓘ Go Live ⓘ
ENG IN 23:38 04-02-2023
```

3. Write a Java program to add two numbers.

```
public class AddTwoNumber {
    public static void main(String[] args) {
        System.out.println("Name:- RISAV MONDAL Class Roll:- 50"); int n
        = 0;
        for (int i = 0; i < args.length; i++)
            {n += Integer.parseInt(args[i]);}
        System.out.println("Sum of Number are \t" + n);
    }
}
```

A screenshot of Visual Studio Code showing a Java program named `AddTwoNumber.java`. The code uses `Scanner` to input two integers from the user and prints their sum. The terminal shows the program running successfully on Windows PowerShell.

```
import java.util.Scanner;
public class AddTwoNumber{
    public static void main(String[] args) {
        System.out.println("Name:- RISAV MONDAL Class Roll:- 50");
        int a,b;
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter first number:");
        a=sc.nextInt();
        System.out.print("Enter second number:");
        b=sc.nextInt();
        int c=a+b;
        System.out.println("Sum of Number are \t" + c);
    }
}
```

```
PS C:\Users\RISAV.MONDAL\Desktop\RisavJAVA> & 'C:\Program Files\Java\jdk-17.0.5\bin\java.exe' '-XX:+ShowCodeDe
034e23dedffe4291ecf\redhat.java\jdt\wa\RisavJAVA_1ef45242\bin'\AddTwoNumber
Name:- RISAV MONDAL Class Roll:- 50
Enter first number:34
Enter second number:67
Sum of Number are      101
PS C:\Users\RISAV.MONDAL\Desktop\RisavJAVA>
```

4. Write a Java Program to find the area and Perimeter of a rectangle.

```
public class Rectangle {
    public static void main(String[] args)
    {Use_Rectangle rect=new Use_Rectangle();
    System.out.println("Name:- RISAV MONDAL Class Roll:- 50");
    rect.length = 15.854;
    rect.width = 22.65;
    System.out.println("Length = " + rect.length);
    System.out.println("Width = " + rect.width);
    rect.Area();
    rect.Perimeter();
    }
}

class Use_Rectangle {
    double length;
    double width;

    void Area() {
        double area;
        area = this.length * this.width;
    }
}
```

```

        System.out.println("Area of rectangle is : "
            + area);
    }

    void Perimeter()
    {
        double perimeter;
        perimeter = 2 * (this.length +
            this.width); System.out.println("Perimeter of rectangle is: "
            + perimeter);
    }
}

```

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows a folder named "RISAVJAVA" containing several Java files: AddTwoNumber.java, CelToFah.java, FahToCel.java, leapyear.java, Printname.class, Printname.java, and Rectangle.java.
- Code Editor:** Displays the Rectangle.java file with the following code:


```

public class Rectangle {
    public static void main(String[] args) {
        Use_Rectangle rect = new Use_Rectangle();
        System.out.println("Name:- RISAV MONDAL Class Roll:- 50"); rect.length = 15.854;
        rect.width = 22.65;
        System.out.println("Length = " + rect.length); System.out.println("Width = " + rect.
        rect.Perimeter());
    }
}

class Use_Rectangle {
    double length; double width;
}
      
```
- Terminal:** Shows the command-line output of running the program:


```

PS C:\Users\RISAV MONDAL\Desktop\RisavJAVA> & 'C:\Program Files\Java\jdk-17.0.5\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\RISAV MONDAL\AppData\Roaming\Code\User\workspaceStorage\52839eac2bb9a034e23dedffe4291ecf\redhat.java\dt_ws\RisavJAVA_1efa5242\bin' 'Rectangle'
Name:- RISAV MONDAL Class Roll:- 50
Length = 15.854
Width = 22.65
Area of rectangle is : 359.09309999999994
Perimeter of rectangle is : 77.008
      
```
- Bottom Status Bar:** Shows system information like weather (69°F Haze), battery level (ENG IN), and date/time (05-02-2023 00:09).

5. Write a program in Java to find the maximum of three numbers.

```

import java.util.*;

public class MaxOfThreeNumber {
    public static void main(String[] args) {
        System.out.println("Name:- RISAV MONDAL Class Roll:- 50"); int
        num1, num2, num3;
        Scanner sc = new
        Scanner(System.in); System.out.println("Enter
        the first Number"); num1 = sc.nextInt();
    }
}

```

```

        System.out.println("Enter the Second
Number");num2 = sc.nextInt();
        System.out.println("Enter the Thired
Number");num3 = sc.nextInt();
        if (num1 > num2) {
            if (num1 > num3) {
                System.out.println("Max nuber is" + num1);
            }
        } elseif(num2
        >num3) {System.out.println("MaxNumberare"+num2);
    } else {
        System.out.println("Max number are" + num3);
    }
}
}

```

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Explorer:** Shows files in the RISAVJAVA folder: AddTwoNumber.java, CelToFah.java, FahToCel.java, leapyear.java, MaxOfThreeNumber.java (selected), Printname.class, Printname.java, Rectangle.java.
- Terminal:**
 - Shows the command: PS C:\Users\RISAV MONDAL\Desktop\RisavJAVA> c; cd 'c:/Users/RISAV MONDAL/Desktop/RisavJAVA'; & 'C:\Program Files\Java\jdk-17.0.5\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:/Users/RISAV MONDAL/AppData/Roaming/Code/User/workspaceStorage\52839eac2bb9a034e23dedffe4291ecf\redhat.java\jdt_ws\RisavJAVA_1efa5242\bin' 'MaxOfThreeNumber'
 - Output of the program execution:
 - Name:- RISAV MONDAL Class Roll:- 50
 - Enter the first Number:
 - 6
 - Enter the Second Number::
 - 9
 - Enter the Thired Number
 - 6
 - Max Number are9
- Bottom Status Bar:** Shows weather (69°F Haze), system icons (Search, Task View, etc.), and status (Ln 11, Col 34, Spaces: 4, UTF-8, CRLF, Java, Go live, ENG IN, 00:16, 05-02-2023).

6. Write a Java Program to check whether a given year is a leap year.

```

import java.util.Scanner;

public class LeapYear {
    public static void main(String[] args) {

```

```
System.out.println("Name:- RISAV MONDAL Class Roll:- 50");int
year;
boolean leap =
false;System.out.println("Enter
Year");Scanner sc = new
Scanner(System.in);year =
sc.nextInt();
if (year % 4 == 0) {
    if (year % 100 == 0) {
        if (year % 400 == 0)
            {leap = true;
        } else {
            leap = false;
        }
    } else {
        leap = true;
    }
} else {
    leap = false;
}
if (leap) {
    System.out.println(year + "\tis a Leap year");
} else {
    System.out.println(year + "\tis a not Leap year");
}
}
```

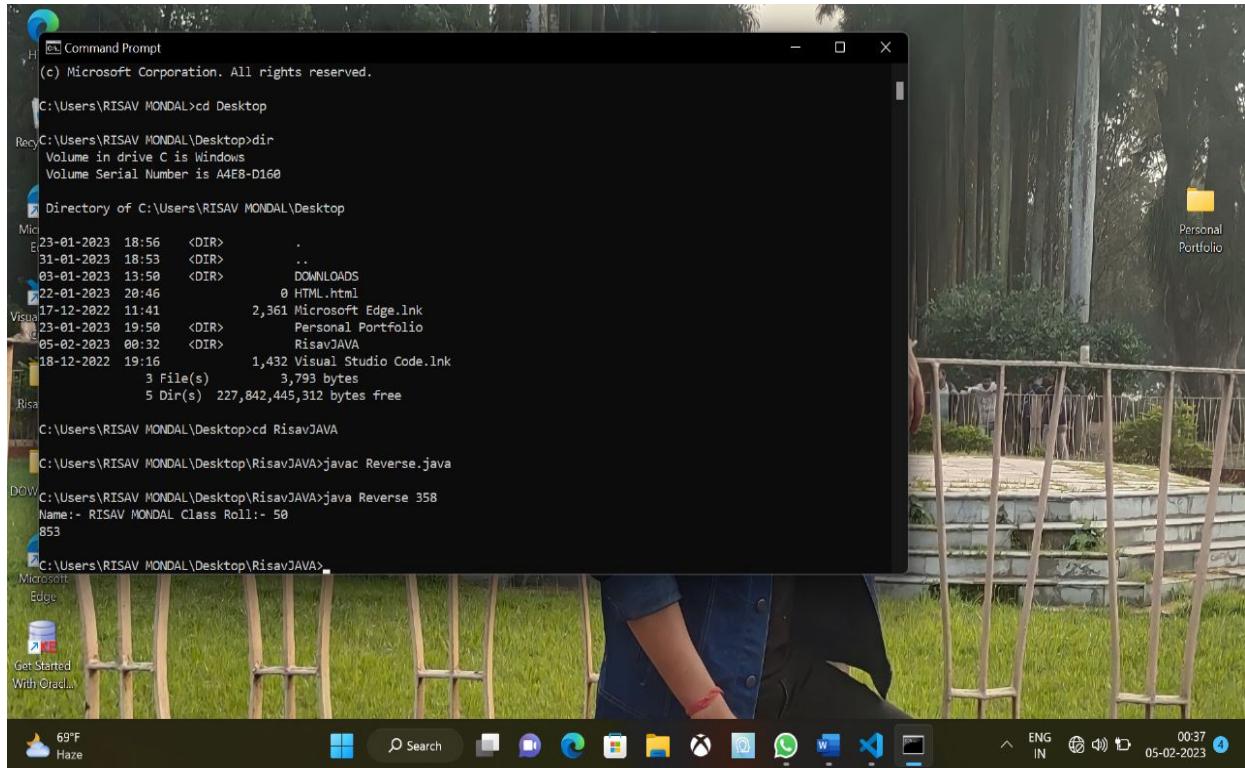
The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Explorer:** Shows a folder named "RISAVJAVA" containing several Java files: AddTwoNumber.java, CelToFahr.java, FahToCel.java, LeapYear.java, MaxOfThreeNumber.java, Printname.class, Printname.java, and Rectangle.java. "LeapYear.java" is currently selected.
- Editor:** Displays the code for "LeapYear.java". The code checks if a given year is a leap year based on specific rules.
- Terminal:** Shows the command-line output of running the "LeapYear" class. It prompts for a year (2022) and prints "2022 is a not Leap year".
- Run Buttons:** A row of run/debug icons for various Java files: FahrToCel, AddTwoNumber, MaxOfThreeNumber, and LeapYear.
- Bottom Status Bar:** Shows file path (C:\Users\RISAV MONDAL\Desktop\RisavJAVA\LeapYear.java), line (Ln 3, Col 18), spaces (Spaces: 4), encoding (UTF-8), CRLF (CRLF), Java, Go Live, system icons (69°F Haze, search, file, folder, etc.), and date/time (05-02-2023 00:31).

8. Write a java program to reverse a number entered as a command line argument.

```
public class Reverse {
    public static void main(String[] args) {
        System.out.println("Name:- RISAV MONDAL Class Roll:- 50");int n
        = 0, revarse = 0;
        for (int i = 0; i < args.length; i++)
            {n = Integer.parseInt(args[i]);
        }

        while (n != 0) {
            int remainder = n % 10;
            revarse = revarse * 10 +
            remainder;n /= 10;
        }
        System.out.println(revarse);
    }
}
```



9.

```
public class CountDigits {
    public static void main(String[] args) {
        System.out.println("Name:- RISAV MONDAL Class Roll:- 50");int n
        = 0, count = 0;
        for (int i = 0; i < args.length; i++)
            {n = Integer.parseInt(args[i]);
        }
        while (n != 0)
            {n /=
            10;count++;
        }
        // int count =
        args.length;System.out.println("Number of Digits are"+
        count);
    }
}
```

Write a Java program to count the number of digits entered through the command line arguments.

```
Command Prompt
Volume in drive C is Windows
Volume Serial Number is A4E8-D160

Directory of C:\Users\RISAV MONDAL\Desktop

23-01-2023 18:56 <DIR> .
31-01-2023 18:53 <DIR> ..
03-01-2023 13:50 <DIR> DOWNLOADS
22-01-2023 20:46 0 HTML.html
17-12-2022 11:41 2,361 Microsoft Edge.lnk
23-01-2023 19:50 <DIR> Personal Portfolio
05-02-2023 00:44 <DIR> RisavJAVA
18-12-2022 19:16 1,432 Visual Studio Code.lnk
            3 File(s)      3,793 bytes
            5 Dir(s) 227,837,890,560 bytes free

C:\Users\RISAV MONDAL\Desktop>cd RisavJAVA

C:\Users\RISAV MONDAL\Desktop\RisavJAVA>javac CountDigits.java

C:\Users\RISAV MONDAL\Desktop\RisavJAVA>java CountDigits 765
Name:- RISAV MONDAL Class Roll:- 50

C:\Users\RISAV MONDAL\Desktop\RisavJAVA>javac CountDigits.java

C:\Users\RISAV MONDAL\Desktop\RisavJAVA>java CountDigits 765
Name:- RISAV MONDAL Class Roll:- 50
Number of Digits are3

C:\Users\RISAV MONDAL\Desktop\RisavJAVA>_
```



10. Write a java program to find all the multiples of 3 within a given range where the starting and endin g value are entered through command line argument.

```
public class MultiplesOf_3 {
    public static void main(String[] args) {
        System.out.println("Name:- RISAV MONDAL Class Roll:- 50");
        int data = 0, n;
        for (int i = 0; i < args.length; i++) {
            n = Integer.parseInt(args[i]);
            if (n != 0) {
                data = n;
            }
        }
        for (int i = 1; i <= data; i++) {
            if (i % 3 == 0) {
                System.out.println("Multiples of 3 are: " + i);
            }
        }
    }
}
```

```
c:\ Command Prompt
03-01-2023 13:50    <DIR>          DOWNLOADS
22-01-2023 20:46           0 HTML.html
17-12-2022 11:41        2,361 Microsoft Edge.lnk
23-01-2023 19:50    <DIR>          Personal Portfolio
05-02-2023 00:50    <DIR>          RisavJAVA
18-12-2022 19:16        1,432 Visual Studio Code.lnk
            3 File(s)      3,793 bytes
            5 Dir(s)  227,840,077,824 bytes free

C:\Users\RISAV MONDAL\Desktop>cd RisavJAVA

C:\Users\RISAV MONDAL\Desktop\RisavJAVA>javac MultipalOf_3.java

C:\Users\RISAV MONDAL\Desktop\RisavJAVA>java MultipalOf_3 0 0 15
Name:- RISAV MONDAL Class Roll:- 50
multiples of 3 are: 3
multiples of 3 are: 6
multiples of 3 are: 9
multiples of 3 are: 12
multiples of 3 are: 15

C:\Users\RISAV MONDAL\Desktop\RisavJAVA>javac MultipalOf_3.java

C:\Users\RISAV MONDAL\Desktop\RisavJAVA>java MultipalOf_3 2 3 10
Name:- RISAV MONDAL Class Roll:- 50
multiples of 3 are: 3
multiples of 3 are: 6
multiples of 3 are: 9

C:\Users\RISAV MONDAL\Desktop\RisavJAVA>
```

69°F
Haze

Search



ENG
IN

00:53 05-02-2023