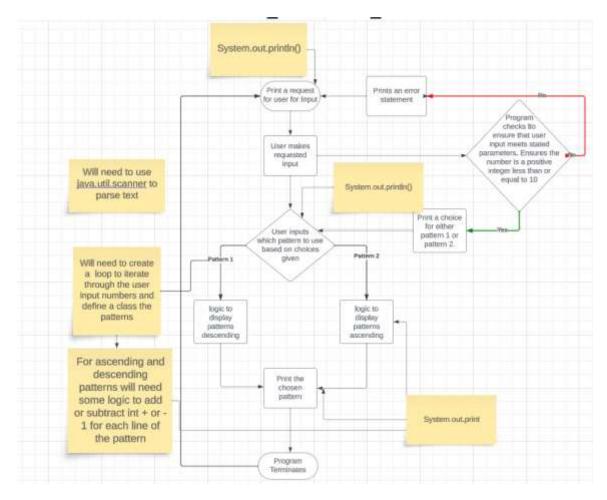
//Design



//Code

```
}
            System.out.println();
        }
    }
//Pattern 2 - Inner loop to do same as outer loop in opposite order achieved
by i--
    public static void pattern2(int maxAsterisks) {
        for (int i = maxAsterisks; i > 0; i--) {
            for (int j = 0; j < i; j++) {
                System.out.print("*");
            }
            System.out.println();
        }
    }
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in); // Declare the object and
initialize with
        // predefined standard input object
        System.out.print("Enter the maximum number of asterisks to display:
");
        int maxAsterisks = scanner.nextInt(); // defines int variable
      //Uses nextInt() method to read integer value and initialize
        if (maxAsterisks <= 0) {</pre>
            System.out.println("Please enter a positive integer for the
maximum number of asterisks.");
            return;
        }
```

```
System.out.println("Choose an output pattern:");
        System.out.println("1. Pattern 1");
        System.out.println("2. Pattern 2");
        System.out.print("Enter 1 or 2: ");
        int choice = scanner.nextInt(); // defines int variable
      //Uses nextInt() method to read integer value and initialize
        if (choice == 1) {
            pattern1(maxAsterisks);
        } else if (choice == 2) {
            pattern2(maxAsterisks);
        } else {
            System.out.println("Invalid choice. Please enter 1 or 2.");
        }
        scanner.closed()//received an error from IDE so closed scanner
    }//end main
}//end class AsteriskPattern
//output from command line
```

```
Command Prompt
C:\Users\rdcox\Documents\JAVA>javac AsteriskPattern.java
C:\Users\rdcox\Documents\JAVA>java AsteriskPattern.java
Enter the maximum number of asterisks to display: 10
Choose an output pattern:
1. Pattern 1
2. Pattern 2
Enter 1 or 2: 1
****
C:\Users\rdcox\Documents\JAVA>java AsteriskPattern.java
Enter the maximum number of asterisks to display: 10
Choose an output pattern:
1. Pattern 1
Pattern 2
Enter 1 or 2: 2
****
C:\Users\rdcox\Documents\JAVA>
```

//ouput from IDE

