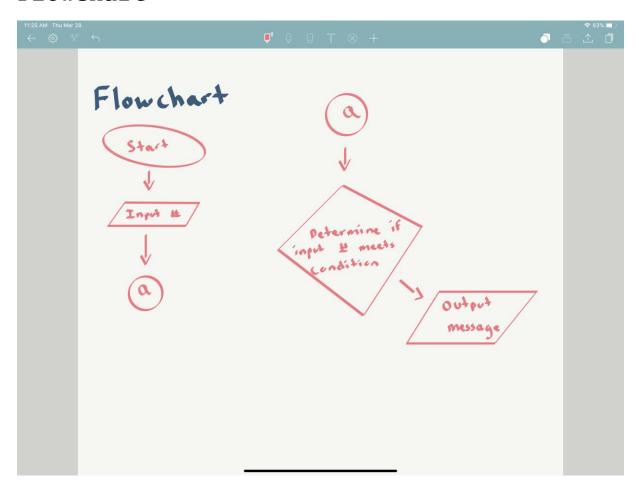
Lab 3

PseudoCode

Purpose - Using if else & case statements , loops to print number within range of 1 through 10
Input - Integer
Processing - CASE statement to determine corresponding roman numeral
Output - Display a correct message or error message

Flowchart



Output

```
Lab3 [Java Application] C:\Program Files (x86)\Java\jre1.8.0_171\bin\javaw.exe (Apr 2, 2019, 12:13:07 PM)

Enter a number within the range of 1 through 10 to find its roman numeral.

1
The roman numeral of 1 is X

Enter a number within the range of 1 through 10 to find its roman numeral.

2
The roman numeral of 2 is X

Enter a number within the range of 1 through 10 to find its roman numeral.

-1
The roman numeral of -1 is not available
Only numbers within the range of 1 through 10 is available.

Enter a number within the range of 1 through 10 to find its roman numeral.

11
The roman numeral of 11 is not available
Only numbers within the range of 1 through 10 is available.

Enter a number within the range of 1 through 10 is available.

Enter a number within the range of 1 through 10 is available.

Enter a number within the range of 1 through 10 to find its roman numeral.
```

Code

```
case 3:
                romanNumeral = "III";
           case 4:
                romanNumeral = "IIII";
           case 5:
                romanNumeral = "V";
           case 6:
                romanNumeral = "VI";
           case 7:
                romanNumeral = "VII";
           case 8:
                romanNumeral = "VIII";
           case 9:
                romanNumeral = "IX";
           case 10:
                romanNumeral = "X";
           case 1-10:
           System.out.println("The roman numeral of " + input + " is " +
romanNumeral);
           System.out.println("-----
           ----");
           break;
           if (input < 1 || input >10) {
                System.out.println("The roman numeral of " + input + " is not
available" );
                System.out.println("Only numbers within the range of 1 through 10
is available.");
                System.out.println("-----
              ----");
//
     Using only If Else Statement
//
//
           if (input == 1) {
//
                romanNumeral = "I";
         System.out.println("The roman numeral of " + input + " is " +
romanNumeral);
         System.out.println("-----
//
        ----");
//
          } else if(input == 2) {
         romanNumeral = "II";
//
         System.out.println("The <a href="roman">roman</a> numeral of " + input + " is " +
romanNumeral);
         System.out.println("-----
//
       ----");
//
      } else if(input == 3) {
//
         romanNumeral = "III";
         System.out.println("The \underline{roman} numeral of " + input + " is " +
romanNumeral);
// System.out.println("------
      ----");
// } else if(input == 4) {
```

```
//
        romanNumeral = "VI";
        System.out.println("The <a href="roman">roman</a> numeral of " + input + " is " +
romanNumeral);
        System.out.println("------
//
    ----");
//
      } else if(input == 5) {
        romanNumeral = "VI";
//
//
         System.out.println("The roman numeral of " + input + " is " +
romanNumeral);
        System.out.println("-----
//
      ----");
//
      } else if(input == 6) {
         romanNumeral = "VI";
//
         System.out.println("The <a href="roman">roman</a> numeral of " + input + " is " +
//
romanNumeral);
   System.out.println("------
   ----");
//
      } else if(input == 7) {
//
         romanNumeral = "VII";
         System.out.println("The roman numeral of " + input + " is " +
romanNumeral);
        System.out.println("-----
      ----");
//
      } else if(input == 8) {
//
        romanNumeral = "VIII";
//
        System.out.println("The roman numeral of " + input + " is " +
romanNumeral);
        System.out.println("-----
      ----");
//
      } else if(input == 9) {
//
         romanNumeral = "IX";
//
         System.out.println("The roman numeral of " + input + " is " +
romanNumeral);
  System.out.println("------
----");
//
      } else if(input == 10) {
//
        romanNumeral = "X";
         System.out.println("The \underline{roman} numeral of " + input + " is " +
romanNumeral);
        System.out.println("-----
        -----");
//
     }
          }
          System.exit(0);
     }
}
```