## P2.1

```
Main.java
  TO PUDITE CLASS MAIN
  11 - {
          public static void main(String[] args) {
  12 -
  13
              Scanner in = new Scanner(System.in);
              char newE;
              do {
                  System.out.print("Please enter year: ");
  17
                  int y = in.nextInt();
  19
                  int a = y \% 19;
  21
                  int b = y / 100;
                  int c = y \% 100;
  22
  23
                  int d = b / 4;
                  int e = b \% 4;
                  int g = (8 * b + 13) / 25;
  25
                  int h = (19 * a + b - d - g + 15) \% 30;
                  int j = c / 4;
                  int k = c \% 4;
                  int m = (a + 11 * h) / 319;
  29
                  int r = (2 * e + 2 * j - k - h + m + 32) \% 7;
                  int n = (h - m + r + 90) / 25;
                  int p = (h - m + r + n + 19) \% 32;
  32
                  /*System.out.println("a: " + a);
                  System.out.println("b: " + b);
                  System.out.println("d: " + d);
  38 ∢ ▮
                                           input
Please enter year: 2001
Easter is on 4/15/2001
Find Easter for another year(enter y or n)?: y
Please enter year: 2024
Easter is on 3/31/2024
Find Easter for another year(enter y or n)?: y
Please enter year: 1986
Easter is on 3/30/1986
Find Easter for another year(enter y or n)?: n
...Program finished with exit code 0
Press ENTER to exit console.
```

```
Main.java
           public static void main(String[] args) {
               Scanner in = new Scanner(System.in);
               char newCalc;
               do {
                         :em.out.print("Please enter frequency in Hz: ");
                    double f = in.nextDouble();
                    System.out.print("Please enter capacitor minimum value in F: ");
                    double cMin = in.nextDouble();
                    System.out.print("Please enter capacitor maximum value in F: ");
                    double cMax = in.nextDouble();
                    double C = Math.sqrt(cMin * cMax);
                    double L = 1 / (Math.pow(2 * Math.PI * f, 2) * C);
double fMin = 1 / (2 * Math.PI * Math.sqrt(L * cMax));
double fMax = 1 / (2 * Math.PI * Math.sqrt(L * cMin));
                    System.out.println("C: " + C);
                    System.out.println("L: " + L);
                    System.out.println(fMin + " Hz < f < " + fMax);
System.out.print("calculate new fmin & fmax(enter y or n)?: ");</pre>
                    newCalc = in.next().charAt(0);
  36 ∢
                                               input
Please enter frequency in Hz: 1670000
Please enter capacitor minimum value in F: .000000000014
Please enter capacitor maximum value in F: .000000000050
C: 2.6457513110645906E-11
L: 3.432877458858988E-4
1214803.3446964193 Hz < f < 2295762.5299401437
calculate new fmin & fmax(enter y or n)?: y
Please enter frequency in Hz: 60
Please enter capacitor minimum value in F: .014
Please enter capacitor maximum value in F: .003
c: 0.006480740698407861
L: 0.0010857081984817383
88.18667041049588 Hz < f < 40.822495999027204
calculate new fmin & fmax(enter y or n)?: n
...Program finished with exit code 0
Press ENTER to exit console.
```