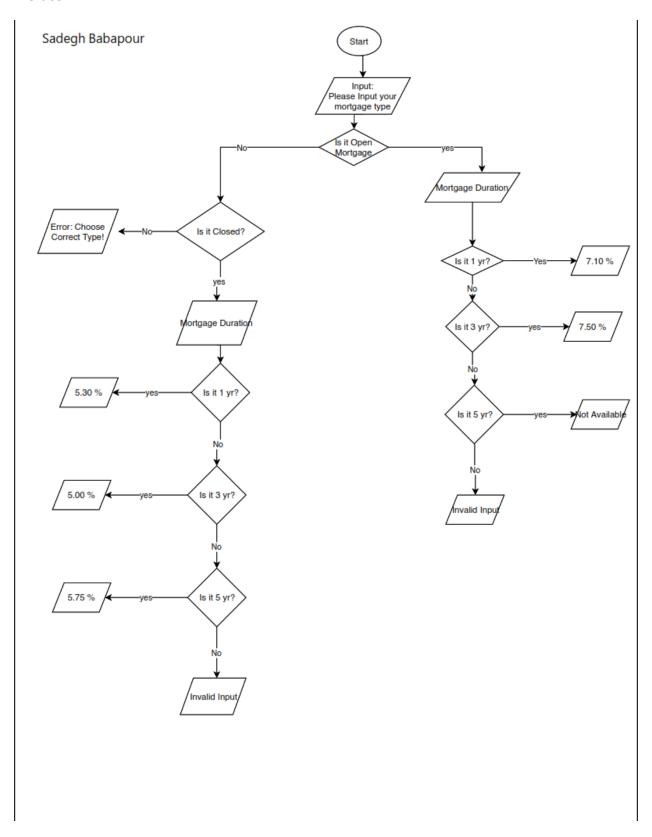
## Exercise 1:

```
public class MyLab00 {
    public static void main(String[] args){
        int y;
        if ((x > 100 \mid | x < 0) \&\& (x >= y));
        System.out.println("X is grater than 100 or less than 0, and it is grater
than y");
        if ((x > y && x < z) && (x < 10 || x >= 100))
            System.out.println("x is greater than y but less than z, and also x
is either less than 10 or greater\n" +
                    "than or equal to 100 ");
        //Question c
        if (( a <= 0 || a > 90) && (a == b))
            System.out.println("a is less than or equal to 0 or greater than 90
and a is equal to b.");
        //Ouestion d
        if ((y \ge 50) \&\& (y \ge 2 \&\& y \le x))
            System.out.println("y is greater than or equal to 50. It also is
greater than z but\n"+
                            "less than or equal to x");
```

## Exercise 2:



## Exercise 3:

```
import javax.swing.JOptionPane;
public class Q {
    public static void main(String[] args) {
        String mortgage;
        mortgage = JOptionPane.showInputDialog("Please Enter Your Mortgage Type:
");
        if (mortgage.equals("open")) {
            System.out.println("You Chose Mortgage: Open!");
            String openDuration;
            openDuration = JOptionPane.showInputDialog("Please Enter your Open
Mortgage Duration: ");
            if (openDuration.equals("1 yr"))
                System.out.println("Open Mortgage rate for 1 yr period is: " +
"7.10 %");
            else if (openDuration.equals("3 yr"))
                System.out.println("Open Mortgage rate for 3 yr period is: " +
"7.50 %");
            else if (openDuration.equals("5 yr"))
                System.out.println("Open Mortgage rate for 5 yr period is: " +
"Not Available!");
            else
                System.out.println("Incorrect Mortgage Duration!");
        else if (mortgage.equals("closed")) {
            System.out.println("You Chose Mortgage: Closed!");
            String closedDuration;
                closedDuration = JOptionPane.showInputDialog("Please Enter your
Closed Mortgage Duration: ");
                if (closedDuration.equals("1 yr"))
                    System.out.println("Closed Mortgage rate for 1 yr period is:
  + "5.30 %");
                else if (closedDuration.equals("3 yr"))
                    System.out.println("Closed Mortgage rate for 3 yr period is:
  + "5.00 %");
                else if (closedDuration.equals("5 yr"))
                    System.out.println("Closed Mortgage rate for 5 yr period is:
  + "5.75 %");
        else
            System.out.println("You did NOT choose the correct type of
Mortgage!!");
```