

## Exercise on if..then..else and flowcharts

1. Study the following program in Java then answer the questions below:

```
public class Bill
{
    public static void main (String[] args)
    {
        System.out.print ("Enter number of oil cans: ");
        int cans = Keyboard.readInt();
        System.out.print ("Enter kilograms of tomatoes: ");
        double tom = Keyboard.readDouble();
        System.out.print ("Enter kilograms of olives: ");
        double oli = Keyboard.readDouble();

        double bill;
        bill = cans*1.2 + tom*1.45 + oli*0.73;
        if (bill>10)
            bill = bill - 1;

        System.out.println ("Your bill amounts to " + bill);
    }
}
```

- a. Describe briefly what the program does.
- b. List all the variables used in the program.
- c. What is bill>10 called? Choose one of the following:
  - i. command
  - ii. condition
  - iii. assignment
- d. What is bill = bill + 1 called? Choose one of the following:
  - i. declaration
  - ii. condition
  - iii. assignment
- e. What is double bill called? Choose one of the following:

- i. declaration
- ii. condition
- iii. assignment

f. Draw a flowchart of the program (you need to do the flowchart only of the blue part).

2. Write the program in Java represented by the following flowchart.

