

1)

```
// fahrenheit = celsius x 9/5 + 32
import java.util.Scanner;

class HelloWorld {
    public static void main(String[] args) {

        System.out.println("Enter the temperature in celsius");
        Scanner sc = new Scanner(System.in);
        float tempInCelsius = sc.nextFloat();

        float tempInFahrenheit = (tempInCelsius * (1.8f)) + 32.0f;
        System.out.println("The temperature in Fahrenheit is " + tempInFahrenheit);
    }
}
```

2)

```
import java.util.Scanner;

class HelloWorld {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        System.out.println("Enter the value for 'a' ");
        int a = sc.nextInt();

        System.out.println("Enter the value for 'b' ");
        int b = sc.nextInt();

        System.out.println("Enter the value for 'c' ");
        int c = sc.nextInt();

        double D = Math.sqrt(b*b - (4*a*c));
        double root1 = (-b + D) / (2*a);
        double root2 = (-b - D) / (2*a);

        System.out.println("The roots are : " + root1 + " " + root2);
    }
}
```

3)

```
import java.util.Scanner;

class HelloWorld {
```

```

public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);

    System.out.println("Enter the first value :");
    int num1 = sc.nextInt();

    System.out.println("Enter the second value :");
    int num2 = sc.nextInt();

    //Bitwise AND
    System.out.println(num1 & num2);

    //Bitwise OR
    System.out.println(num1 | num2);

    //Bitwise XOR
    System.out.println(num1 ^ num2);

    //Left Shift
    System.out.println(num1 << num2);

    //Right Shift
    System.out.println(num1 >> num2);
}
}

```

4)

```

import java.util.Scanner;

class HelloWorld {
    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);
        System.out.println("Enter your age");
        int age = sc.nextInt();

        if(age >= 18) {
            System.out.println("You are eligible to vote");
            System.out.println("Enter your birth year");
            int birthYear = sc.nextInt();

            System.out.println(age);
            System.out.println(birthYear);
        }
    }
}

```

```
}  
else{  
    System.out.println("You are not eligible to vote");  
}  
  
    System.out.println(age);  
    System.out.println(birthYear); // This line will lead to error since it is not declared in this  
block.  
  
}  
}
```