1.Question:

```
package java_intro;

import java.util.Scanner;

public class Iteration_problem_1 {

	public static void main(String[] args) {


		Scanner obj = new Scanner(System.in);

		System.out.print("Correct PIN: ");
		int pin = obj.nextInt();

		System.out.print("Enter PIN: ");
		int userPin = obj.nextInt();

		while (userPin != pin) {
		   System.out.println("Wrong PIN");
		   System.out.print("Enter PIN again: ");
		   userPin = obj.nextInt();
		}

		System.out.println("Access Granted");

	   }
	}
```

2.Question:

```
package java_intro;

import java.util.Scanner;

public class Iteration_problem_2 {

        public static void main(String[] args) {

                Scanner obj = new Scanner(System.in);


    System.out.print("Enter password: ");
     String password = obj.nextLine();

    while (password.length() < 8) {
       System.out.println("Password too short");
       System.out.print("Enter password again: ");
       password = obj.nextLine();
    }

    System.out.println("Password accepted");
  }

        }
```

3.) Question:

```
package java_intro;

import java.util.Scanner;

public class Iteration_problem_3 {

        public static void main(String[] args) {

    Scanner obj = new Scanner(System.in);
    int choice;

    do {
       System.out.println("\nMenu");
       System.out.println("1. Add");
       System.out.println("2. Sub");
       System.out.println("3. Exit");
       System.out.print("Enter your choice: ");

       choice = obj.nextInt();

       switch (choice) {
          case 1:
             System.out.print("Enter two numbers: ");
             int a = obj.nextInt();
             int b = obj.nextInt();
             System.out.println("Sum = " + (a + b));
             break;


          case 2:
```

```
            System.out.print("Enter two numbers: ");
            int x = obj.nextInt();
            int y = obj.nextInt();
            System.out.println("Difference = " + (x - y));
            break;

        case 3:
            System.out.println("Exit");
            break;

        default:
            System.out.println("Invalid choice");
      }

    } while (choice != 3);


  }
}
```

4.Question:

```
package java_intro;

import java.util.Scanner;

public class Iteration_problem_4 {

        public static void main(String[] args) {

                Scanner obj = new Scanner(System.in);
    char choice;

    do {

       System.out.print("Do you want to continue? (y/n): ");
       choice = obj.next().charAt(0);
    } while (choice == 'y');

    System.out.println("Program stopped.");

  }
}
```

5.)Question:

```
package java_intro;

import java.util.Scanner;

public class Iteration_problem_5 {

        public static void main(String[] args) {

    Scanner obj = new Scanner(System.in);
    String mobile;



    do {
       System.out.print("Enter 10-digit mobile number: ");
        mobile = obj.nextLine();

       if (mobile.length() != 10) {
          System.out.println("Invalid mobile number");
       }

    } while (mobile.length() != 10);

    System.out.println("Mobile number accepted");



        }

}
```