

1.

```
public class Exercise36 {  
    public static void main(String[] args) {  
        System.out.println(isEven(2));  
        System.out.println(isEven(3));  
    }  
  
    public static boolean isEven(int number) {  
        if(number%2 == 0) {  
            return true;  
        } else {  
            return false;  
        }  
    }  
}
```

2.

```
import java.util.Scanner;  
  
public class Exercise36 {  
    public static void main(String[] args) {  
        Scanner input = new Scanner(System.in);  
        boolean loop = true;  
        while(loop) {  
            System.out.println("Ange ett tal från 0 till 9.");  
            int number = input.nextInt();  
            if(number >= 0 && number < 10) {  
                System.out.println("Bra jobbat, du kan följa simpla instruktioner.");  
                loop = false;  
            }  
        }  
    }  
}
```

```
    }  
    }  
    }  
}
```

3.

```
import java.util.Scanner;
```

```
public class Exercise36 {  
    public static void main(String[] args) {  
        Scanner input = new Scanner(System.in);  
        boolean loop = true;  
        String oldText = "";  
        while(loop) {  
            System.out.println("Skriv nåt då...");  
  
            String newText = input.nextLine();  
            if(newText.equals(oldText)) {  
                loop = false;  
            } else {  
                oldText = newText;  
            }  
        }  
    }  
}
```

4.

```
import java.util.Scanner;
```

```

public class Exercise36 {

    public static void main(String[]args) {

        System.out.println("Ange två tal så beräknas medelvärde av dem:");

        /double firstNum = getIntFromUser();
        double secondNum = getIntFromUser();
        double mean = calcMean(firstNum, secondNum);
        System.out.println(mean);

    }

    public static double getIntFromUser() {
        Scanner input = new Scanner(System.in);
        return input.nextDouble();
    }

    public static double calcMean(double num1, double num2) {
        return (num1+num2)/2;
    }

}

```

5.

```

import java.util.Scanner;

public class Exercise36 {

    public static void main(String[]args) {

        for(int i = 0; i < 5; i++) {

            boolean result = isAuthorised();

            if(result && i == 4) {

```

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        System.out.println("Ouff, close one, but you got it on the last try!");
    } else if(result) {
        System.out.println("Congratulations, correct password sequence!");
        break;
    } else {
        System.out.println("Incorrect password sequence! Try again!");
    }
}
}
}

```

```

public static boolean isAuthorised() {
    System.out.println("Write the three passwords:");
    System.out.print("Password 1:");
    String pass1 = getPassword();
    System.out.print("Password 2:");
    String pass2 = getPassword();
    System.out.print("Password 3:");
    String pass3 = getPassword();
    if(pass1.equals(pass2) || pass1.equals(pass3) || pass2.equals(pass3)) {
        return false;
    } else if(checkCorrect(pass1) && checkCorrect(pass2) && checkCorrect(pass3)) {
        return true;
    } else {
        return false;
    }
}
}

```

```

public static boolean checkCorrect(String pass) {
    String correctPass1 = "piggy";
    String correctPass2 = "snuff";
    String correctPass3 = "bark";

```

```

if(pass.equals(correctPass1) || pass.equals(correctPass2) || pass.equals(correctPass3)) {
    return true;
} else {
    return false;
}
}

```

```

public static String getPassword(){
    Scanner input = new Scanner(System.in);
    return input.nextLine();
}
}

```

6.

```
import java.util.Scanner;
```

```

public class Exercise36 {
    public static void main(String[] args) {
        System.out.println(anyIsTrue(false, false, false, false));
        System.out.println(anyIsTrue(true, false, false, false));
        System.out.println(anyIsTrue(false, true, false, false));
        System.out.println(anyIsTrue(false, false, true, false));
        System.out.println(anyIsTrue(false, false, false, true));
        System.out.println(anyIsTrue(true, true, true, true));
    }
}

```

```

public static boolean anyIsTrue(boolean bool1, boolean bool2, boolean bool3, boolean bool4) {
    if(bool1 || bool2 || bool3 || bool4) {
        return true;
    } else {
        return false;
    }
}

```

```
}  
}  
}
```

7.

```
import java.util.Scanner;
```

```
public class Exercise36 {  
    public static void main(String[] args) {  
        System.out.println(anyIsTrue(false, false, false, false));  
        System.out.println(anyIsTrue(true, false, false, false));  
        System.out.println(anyIsTrue(false, true, false, false));  
        System.out.println(anyIsTrue(false, false, true, false));  
        System.out.println(anyIsTrue(false, false, false, true));  
        System.out.println(anyIsTrue(true, true, true, true));  
  
        System.out.println(anyIsFalse(false, false, false, false));  
        System.out.println(anyIsFalse(true, false, false, false));  
        System.out.println(anyIsFalse(false, true, false, false));  
        System.out.println(anyIsFalse(false, false, true, false));  
        System.out.println(anyIsFalse(false, false, false, true));  
        System.out.println(anyIsFalse(true, true, true, true));  
    }  
  
    public static boolean anyIsTrue(boolean bool1, boolean bool2, boolean bool3, boolean bool4) {  
        if(bool1 || bool2 || bool3 || bool4) {  
            return true;  
        } else {  
            return false;  
        }  
    }  
}
```

```
public static boolean anyIsFalse(boolean bool1, boolean bool2, boolean bool3, boolean bool4) {  
    if(!bool1 || !bool2 || !bool3 || !bool4) {  
        return true;  
    } else {  
        return false;  
    }  
}  
}
```