

```
package useFul;
```

```
public class UseMe {
```

```
    public static float area (float l, float b) {
```

```
        return (l*b);
```

```
    }
```

```
    public static float percentage (float obtain, float total) {
```

```
        float percent = obtain / total * 100;
```

```
        return percent;
```

```
    }
```

```
}
```

```
import useFul.UseMe;
```

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

```
class Exp7 {
```

```
    public static void main(String[] args) {
```

```
        Scanner input = new Scanner(System.in);
```

```
        System.out.print("Enter Length & Breadth (cm): ");
```

```
        float l = input.nextFloat();
```

```
        float b = input.nextFloat();
```

```
        System.out.println("Area : " + UseMe.area(l,b) + " sqcm.\n");
```

```
        System.out.print("Enter Marks Obtained : ");
```

```
        float ob = input.nextFloat();
```

```
        System.out.print("Enter Total Marks : ");
```

```
        float tot = input.nextFloat();
```

```
        System.out.println("Percentage : " + UseMe.percentage(ob,tot) + "%");
```

```
    }
```

```
}
```

```
C:\WINDOWS\system32\cmd.exe

C:\Users\vishal\Desktop\Manual program>java Exp7
Enter Length & Breadth (cm): 30 30
Area : 900.0 sqcm.

Enter Marks Obtained : 380
Enter Total Marks : 400
Percentage : 95.0%

C:\Users\vishal\Desktop\Manual program>
```

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

```
class AuthenticationFailureException extends Exception {
```

```
    AuthenticationFailureException() {
```

```
        super("Wrong username or password");
```

```
    }
```

```
}
```

```
class Exp8 {
```

```
    public static void main(String[] args) {
```

```
        Scanner input = new Scanner(System.in);
```

```
        String username = "vishal";
```

```
        String password = "123456";
```

```
        String un,pw;
```

```
        try{
```

```
            System.out.print("Enter username : ");
```

```
            un = input.nextLine();
```

```
            System.out.print("Enter password : ");
```

```
            pw = input.nextLine();
```

```
            if (un.equals(username) == false || pw.equals(password) == false) {
```

```
                throw new AuthenticationFailureException();
```

```
            }
```

```
            System.out.println("Welcome " + username + " !!");
```

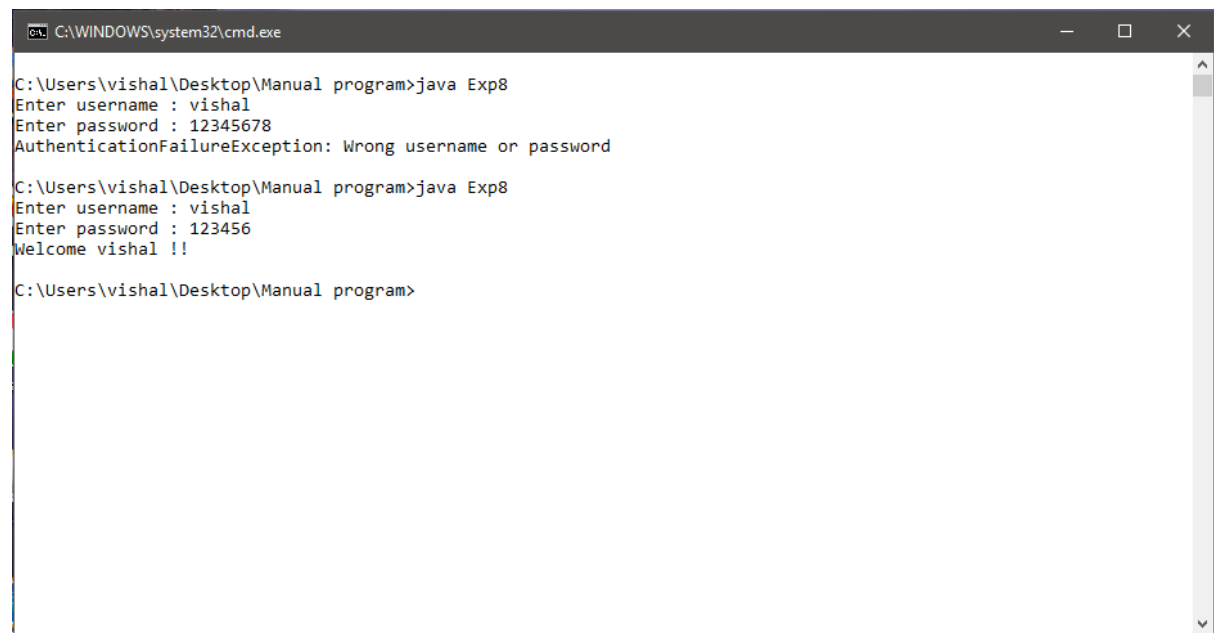
```
        } catch (Exception e) {
```

```
            System.out.println(e);
```

```
        }
```

```
    }
```

```
}
```



```
C:\WINDOWS\system32\cmd.exe

C:\Users\vishal\Desktop\Manual program>java Exp8
Enter username : vishal
Enter password : 12345678
AuthenticationFailureException: Wrong username or password

C:\Users\vishal\Desktop\Manual program>java Exp8
Enter username : vishal
Enter password : 123456
Welcome vishal !!

C:\Users\vishal\Desktop\Manual program>
```

```
class Even extends Thread {
```

```
    public void run () {
```

```
        for (int i = 0 ; i <= 20 ; i++) {
```

```
            if (i % 2 == 0) {
```

```
                System.out.println("Even : " + i);
```

```
            }
```

```
        }
```

```
    }
```

```
}
```

```
class Odd extends Thread {
```

```
    public void run () {
```

```
        for (int i = 0 ; i <= 20 ; i++) {
```

```
            if (i % 2 != 0) {
```

```
                System.out.println("Odd : " + i);
```

```
            }
```

```
        }
```

```
    }
```

```
}
```

```
class Exp9 {
```

```
    public static void main(String[] args) {
```

```
        Even even = new Even();
```

```
        Odd odd = new Odd();
```

```
        even.start();
```

```
        odd.start();
```

```
    }
```

```
}
```

```
C:\WINDOWS\system32\cmd.exe

C:\Users\vishal\Desktop\Manual program>java Exp9
Even : 0
Odd : 1
Even : 2
Odd : 3
Even : 4
Odd : 5
Even : 6
Odd : 7
Even : 8
Odd : 9
Even : 10
Odd : 11
Even : 12
Odd : 13
Even : 14
Odd : 15
Even : 16
Odd : 17
Even : 18
Odd : 19
Even : 20

C:\Users\vishal\Desktop\Manual program>
```

```
import java.applet.*;
```

```
import java.awt.*;
```

```
//<applet code = Exp10 height = 400 width = 600> </applet>
```

```
public class Exp10 extends Applet {
```

```
    public void paint(Graphics g) {
```

```
        int x = 0,y = 0;
```

```
        for (int c = 0 ; c < 8 ; c++) {
```

```
            if (c % 2 == 0) {
```

```
                for (int i = 0 ; i < 8 ; i++) {
```

```
                    if (i % 2 == 0) {
```

```
                        g.fillRect(x,y,20,20);
```

```
                    }
```

```
                    x += 20;
```

```
                }
```

```
            } else {
```

```
                for (int i = 0 ; i < 8 ; i++) {
```

```
                    if (i % 2 != 0) {
```

```
                        g.fillRect(x,y,20,20);
```

```
                    }
```

```
                    x += 20;
```

```
                }
```

```
            }
```

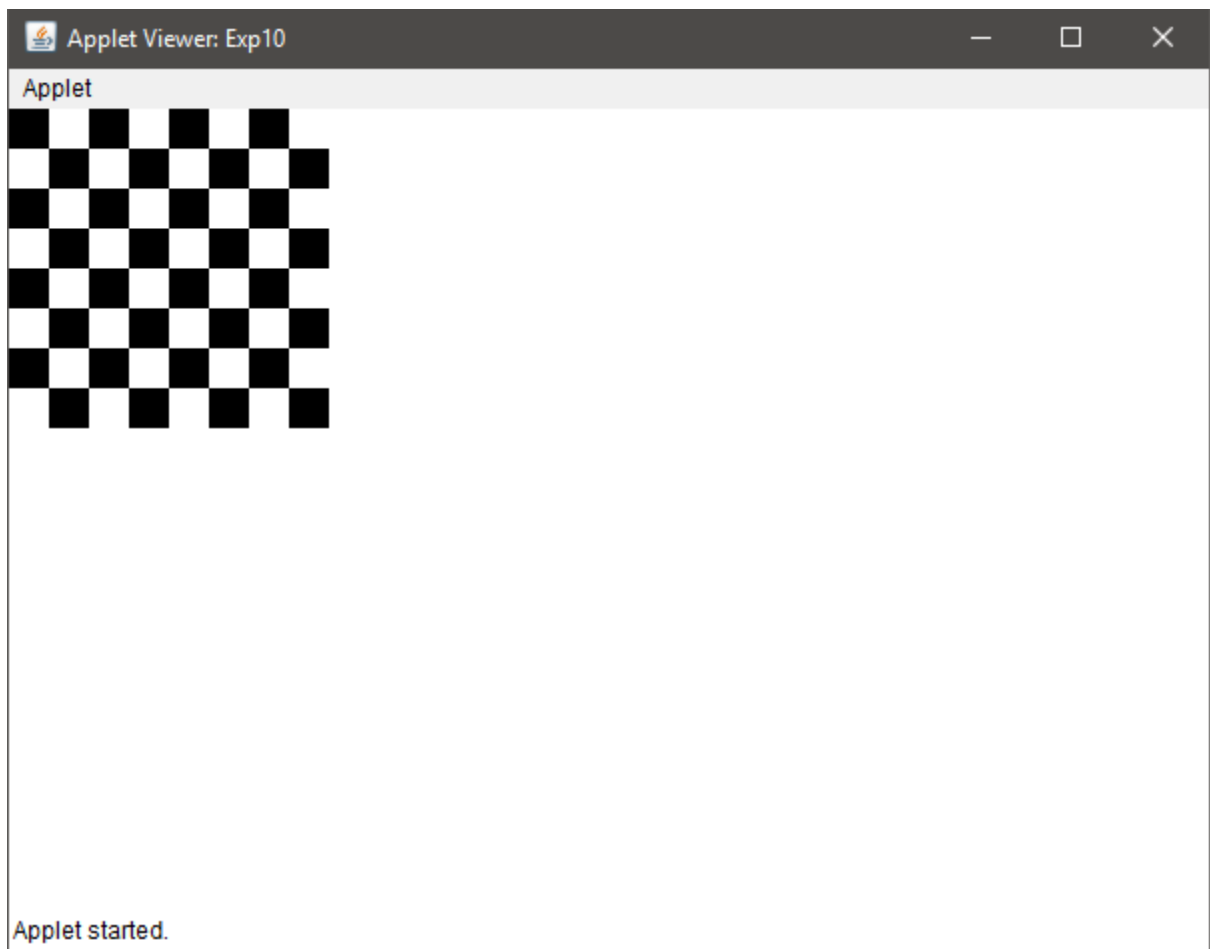
```
            y += 20;
```

```
            x = 0;
```

```
        }
```

```
    }
```

```
}
```




```
import java.io.*;
```

```
class Exp11 {
```

```
    public static void main(String[] args) throws IOException {
```

```
        String fileName = args[0];
```

```
        BufferedReader read = new BufferedReader(new FileReader(fileName));
```

```
        String line;
```

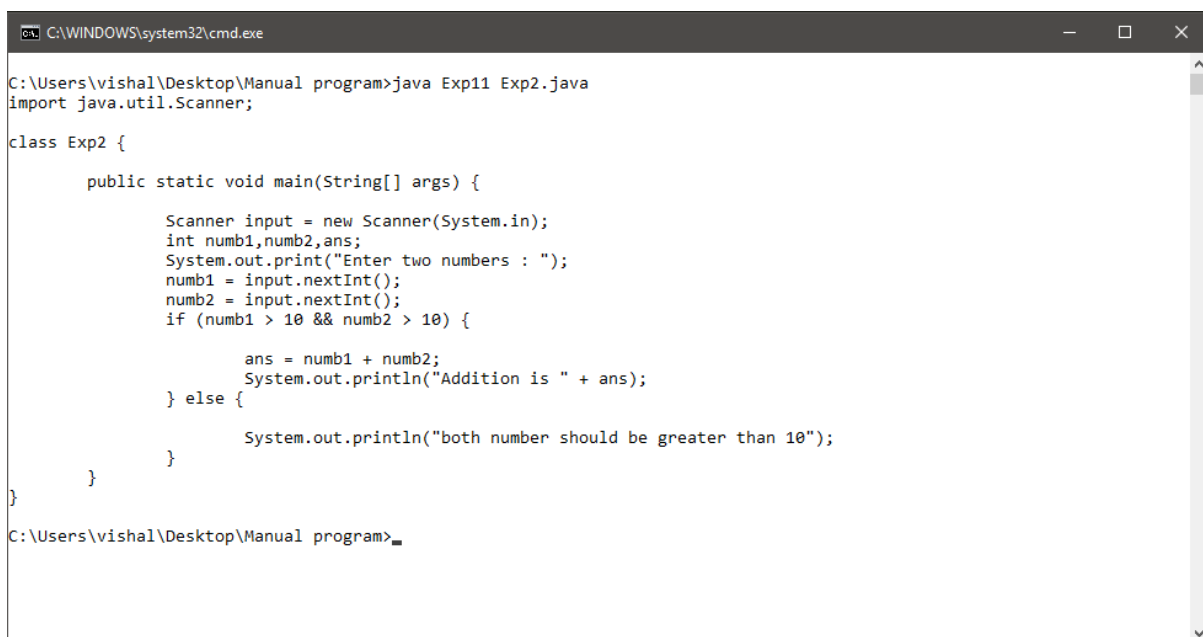
```
        while ((line = read.readLine()) != null) {
```

```
            System.out.println(line);
```

```
        }
```

```
    }
```

```
}
```



The screenshot shows a Windows command prompt window titled "C:\WINDOWS\system32\cmd.exe". The user has entered the command `java Exp11 Exp2.java` at the prompt `C:\Users\vishal\Desktop\Manual program>`. The output of the program is displayed below the command, showing the source code of `Exp2.java`. The code defines a class `Exp2` with a `main` method that uses a `Scanner` to read two integers from the user. It then checks if both numbers are greater than 10. If so, it calculates their sum and prints it. Otherwise, it prints a message stating that both numbers should be greater than 10.

```
C:\WINDOWS\system32\cmd.exe
C:\Users\vishal\Desktop\Manual program>java Exp11 Exp2.java
import java.util.Scanner;
class Exp2 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        int numb1,numb2,ans;
        System.out.print("Enter two numbers : ");
        numb1 = input.nextInt();
        numb2 = input.nextInt();
        if (numb1 > 10 && numb2 > 10) {
            ans = numb1 + numb2;
            System.out.println("Addition is " + ans);
        } else {
            System.out.println("both number should be greater than 10");
        }
    }
}
```

C:\Users\vishal\Desktop\Manual program>