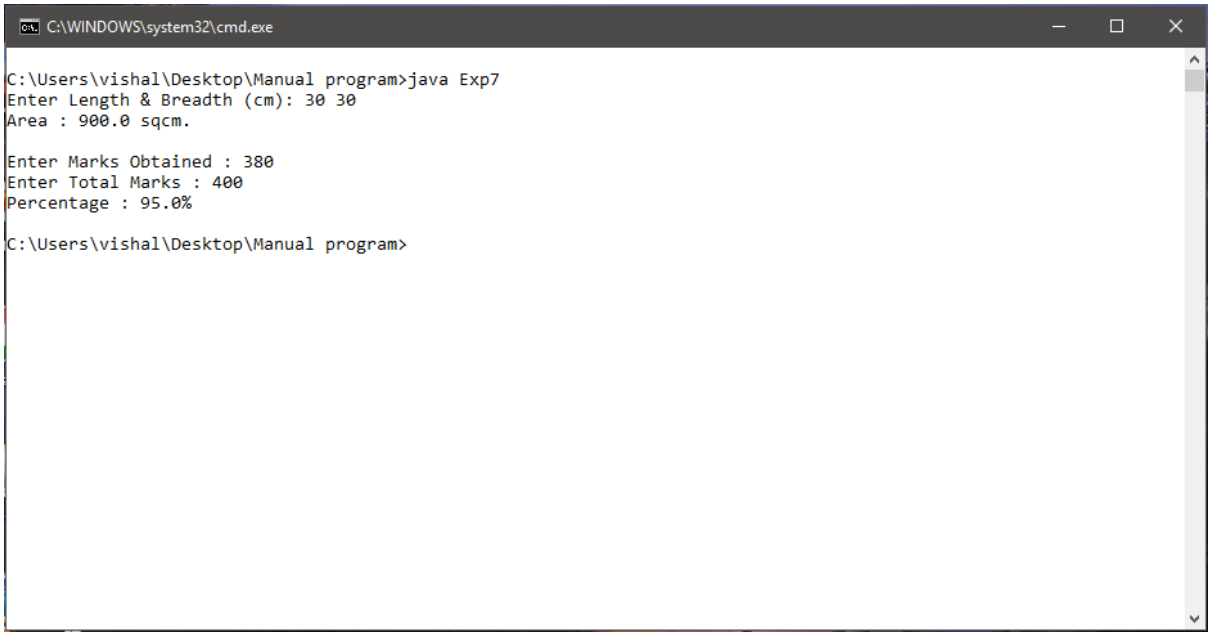
```
package useFul;

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>

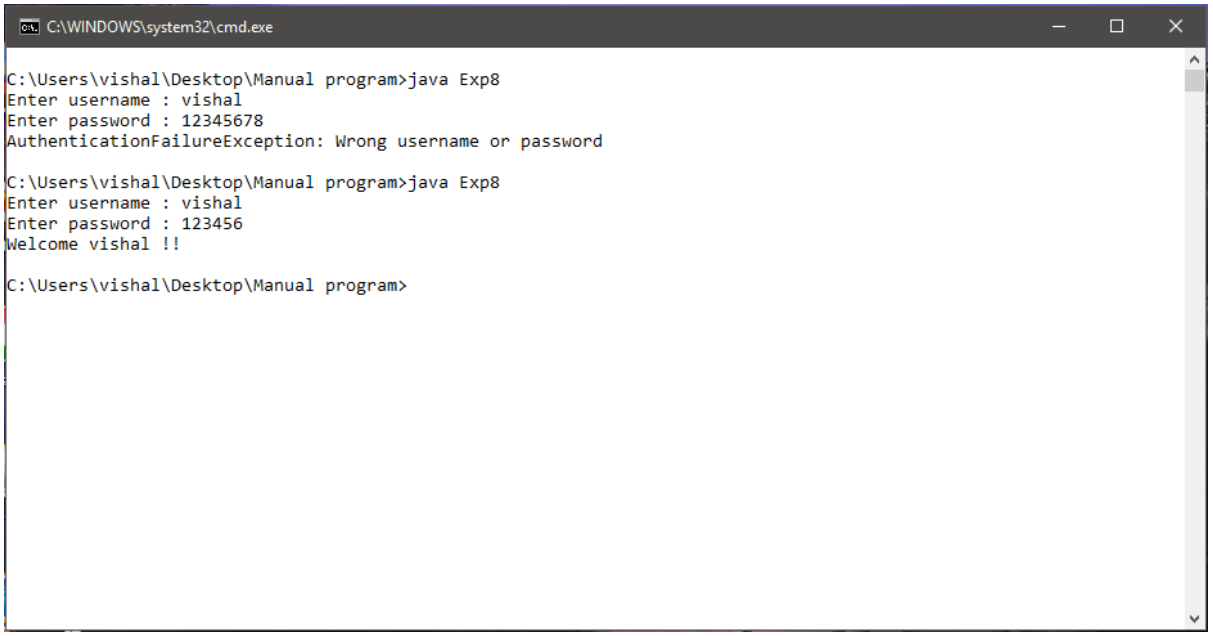
```
import java.util.Scanner;

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>

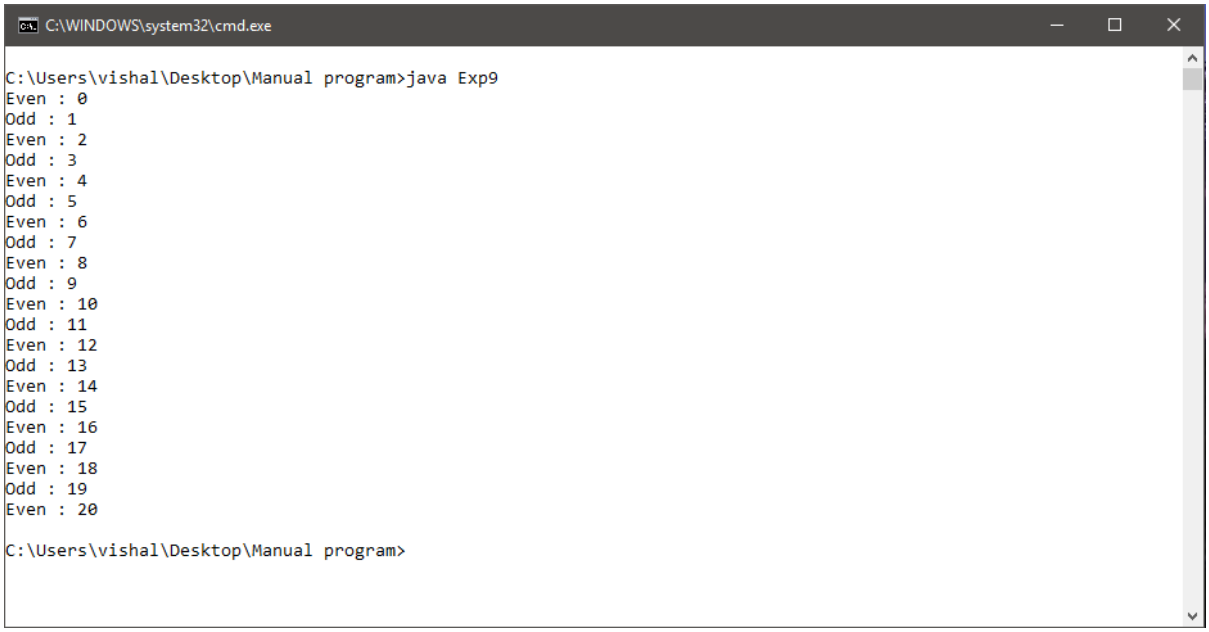
```
class Even extends Thread {

	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();
	}
}
```

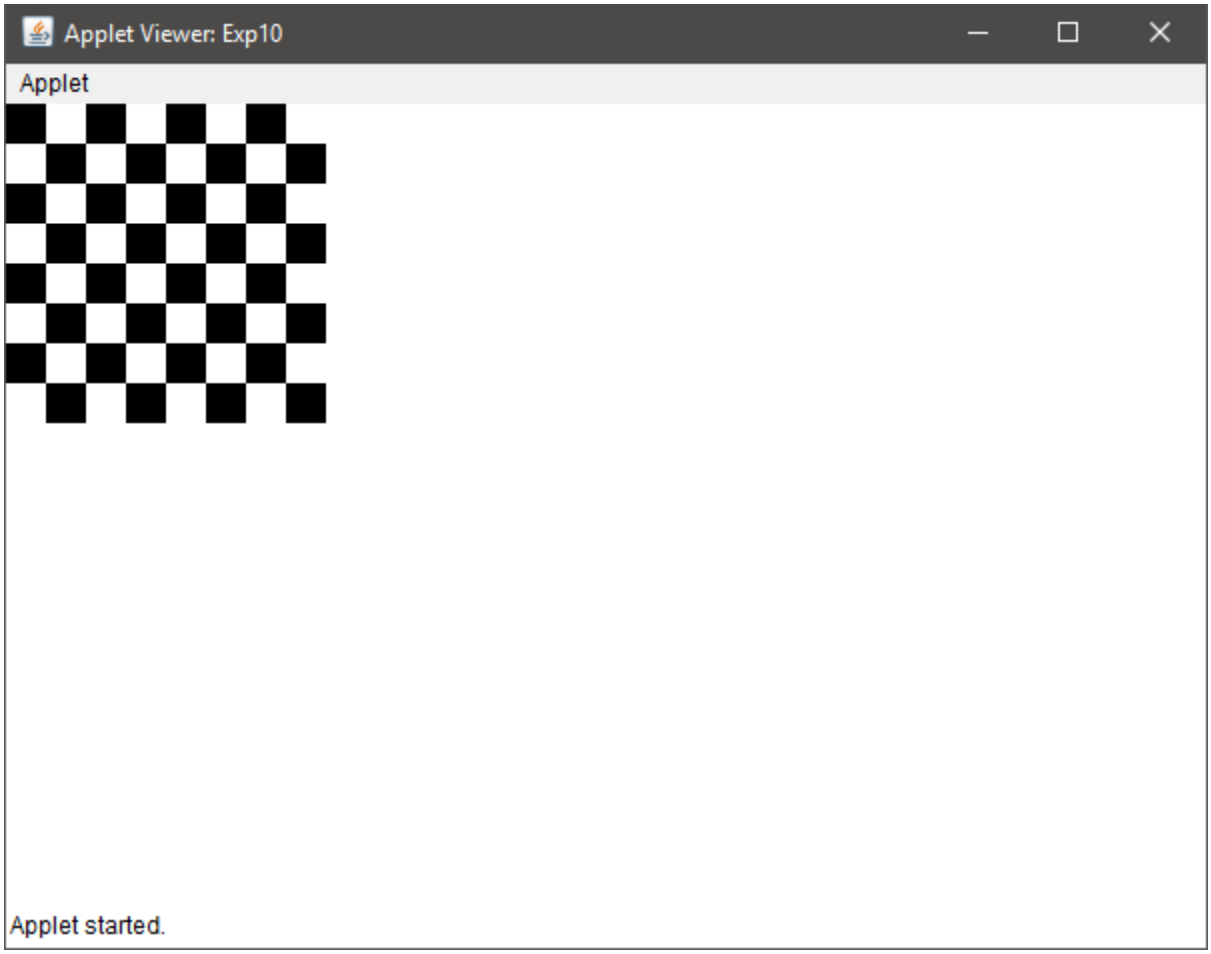

C:\WINDOWS\system32\cmd.exe
C:\Users\vishal\Desktop\Manual program>java Exp9
Even : 0
Odd : 1
Even : 2
Odd : 3
Even : 4
Odd : 5
Even : 6
Odd : 7
Even : 8
Odd : 9
Even : 10
Odd : 11
Even : 12
Odd : 13
Even : 14
Odd : 15
Even : 16
Odd : 17
Even : 18
Odd : 19
Even : 20
C:\Users\vishal\Desktop\Manual program>

```
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;
		}
	}
}
```


Applet Viewer: Exp10
Applet
Applet started.

```
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);

                }

        }

}
```