Java Program to Shutdown and Restart Computer

This article is created to cover multiple programs in Java, to shutdown or restart the computer system. Here are the list of programs included in this article:

- Shutdown computer after 5 seconds using Java
- Shutdown computer after given time using Java
- Restart computer after 5 seconds using Java
- Restart computer after given time using Java

To shutdown computer in Java programming, you have to use the command **shutdown -s**. You can also specify the time in seconds, after which you want to turn off or shutdown the PC, using **shutdown -s -t seconds**. Where **seconds** refers to the number of seconds.

Note - To shutdown the computer, use **shutdown -s**. To restart the computer, use **shutdown -r**.

Important - <u>Be sure to close all unsaved files and windows, before executing the program</u> given below, to shutdown or restart the computer system.

Shutdown Computer after 5 Seconds in Java

The question is, *write a Java program to shutdown the computer after 5 seconds.* Answer to this question, is the program given below:

```java
import java.io.*;

public class CodesCracker
{
    public static void main(String[] args)
    {
        Runtime runtime = Runtime.getRuntime();
        try
        {
            System.out.println("Shutting down the PC after 5 seconds.");
            runtime.exec("shutdown -s -t 5");
        }
        catch(IOException e)
        {
            System.out.println("Exception: " +e);
        }
    }
}
```

The sample output produced by this program is:

```
Shutting down the PC after 5 seconds.
```

and the PC will get shutdown after 5 seconds.

Shutdown Computer after Given Time (in Seconds)

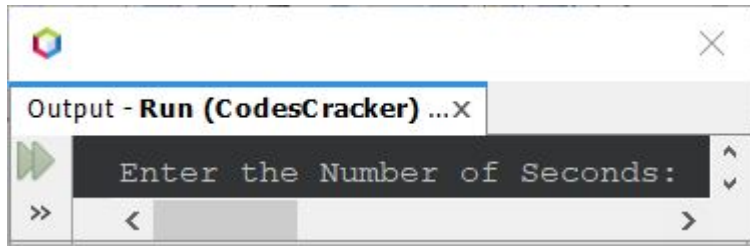This program receives the number of seconds from user at run-time of the program, to shutdown the computer after the given number of seconds.

```java
import java.util.Scanner;
import java.io.*;

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

        System.out.print("Enter the Number of Seconds: ");
        int seconds = scan.nextInt();
        Runtime r = Runtime.getRuntime();
        try
        {
            System.out.println("Shutting down the PC after " +seconds+" seconds.");
            r.exec("shutdown -s -t " +seconds);
        }
        catch(IOException e)
        {
            System.out.println("Exception: " +e);
        }
    }
}
```

The snapshot given below shows the initial output produced by above program, on shutting down the computer after given number of seconds:

Now type the number of seconds and press ENTER key to initiate the shutdown operation after that number of seconds. For example, type **60** and press ENTER key to shutdown PC after 60 seconds.

Restart Computer after 5 Seconds in Java

The only change we need to do, from the program given in the section *Shutdown Computer after 5 Seconds in Java*, is to change the code from **shutdown -s -t** to **shutdown -r -t**, to restart the computer after 5 seconds. Here is the complete version of the program.

```java
import java.io.*;

public class CodesCracker
{
    public static void main(String[] args)
    {
        Runtime r = Runtime.getRuntime();
        try
        {
            r.exec("shutdown -r -t 5");
            System.out.println("Restarting the Computer after 5 seconds.");
        }
        catch(IOException e)
        {
            System.out.println("Exception: " +e);
        }
    }
}
```

Restart Computer after Given Seconds

This is the last program of this article, created to restart the computer after given number of seconds, by user at run-time of the program:

```java
import java.util.Scanner;
import java.io.*;

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

        System.out.print("Enter the Number of Seconds: ");
        int sec = scan.nextInt();
        Runtime r = Runtime.getRuntime();
        try
        {
            System.out.println("The PC will get restarted after " +sec+" seconds.");
            r.exec("shutdown -r -t " +sec);
        }
        catch(IOException e)
        {
            System.out.println("Exception: " +e);
        }
    }
}
```

Note - To shutdown or restart PC immediately, use **shutdown -s -t 0** or **shutdown -r -t 0**.

Note - If you'll not use the time, then by default, the computer will get shutdown/restart after 30 seconds using **shutdown -s** or **shutdown -r**.

Same Program in Other Languages