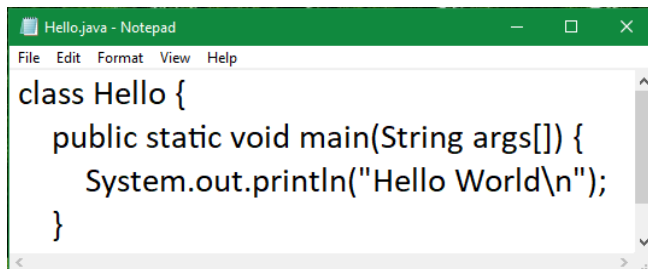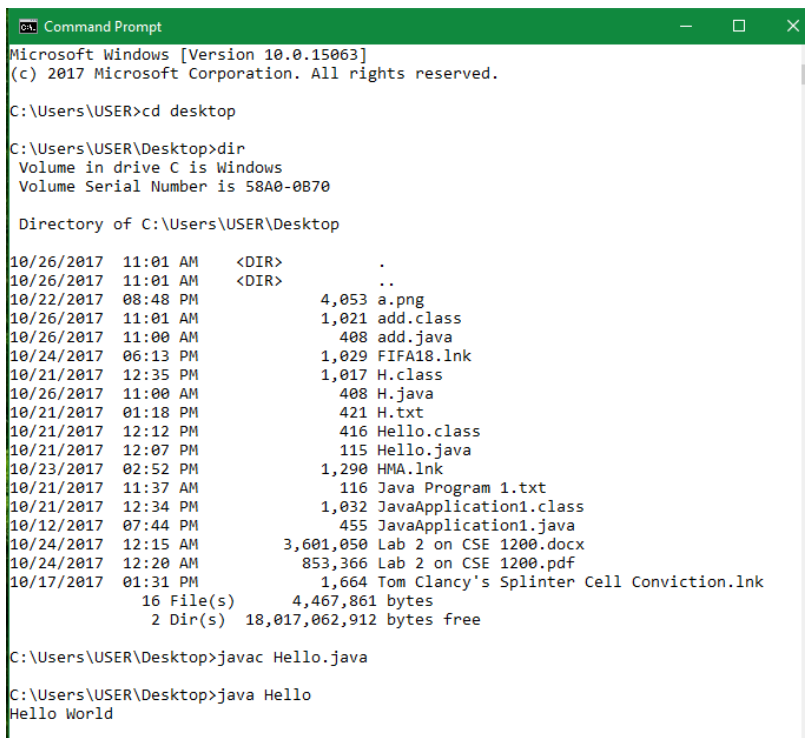## Theory

Java is a fully object-oriented program. It is a high level programming language. Java is a open-platform language that means a same program written in Java can be compiled in all the operating system (e.g. Windows, Mac OS, Linux) by the command prompt. Java is a full-featured general purpose programming language that is capable of developing robust mission critical applications. How to run java programs using *Command prompt* is given below:
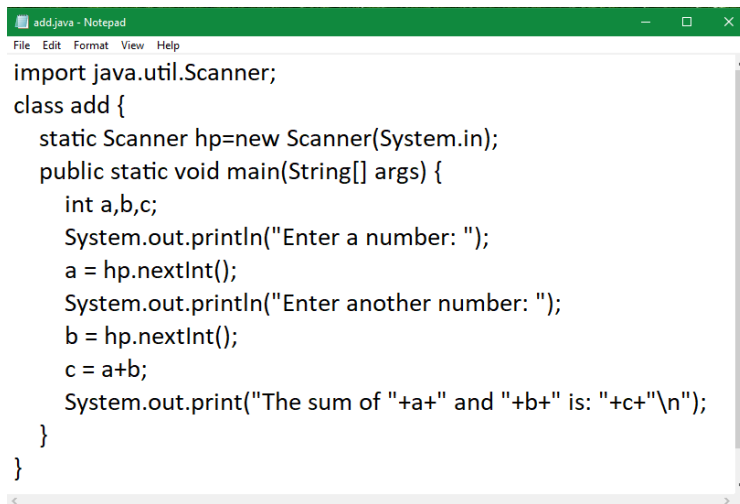
Printing "Hello World"

At first the 'Notepad' was opened and the above code was written and saved as Hello.java and then the command prompt was opened and the following steps was maintained.

Summation of two user given integer


```java
import java.util.Scanner;
class add {
    static Scanner hp=new Scanner(System.in);
    public static void main(String[] args) {
        int a,b,c;
        System.out.println("Enter a number: ");
        a = hp.nextInt();
        System.out.println("Enter another number: ");
        b = hp.nextInt();
        c = a+b;
        System.out.print("The sum of "+a+" and "+b+" is: "+c+"\n");
    }
}
```

At first the 'Notepad' was opened and the above code was written and saved as add.java and then the command prompt was opened and the following steps was maintained.
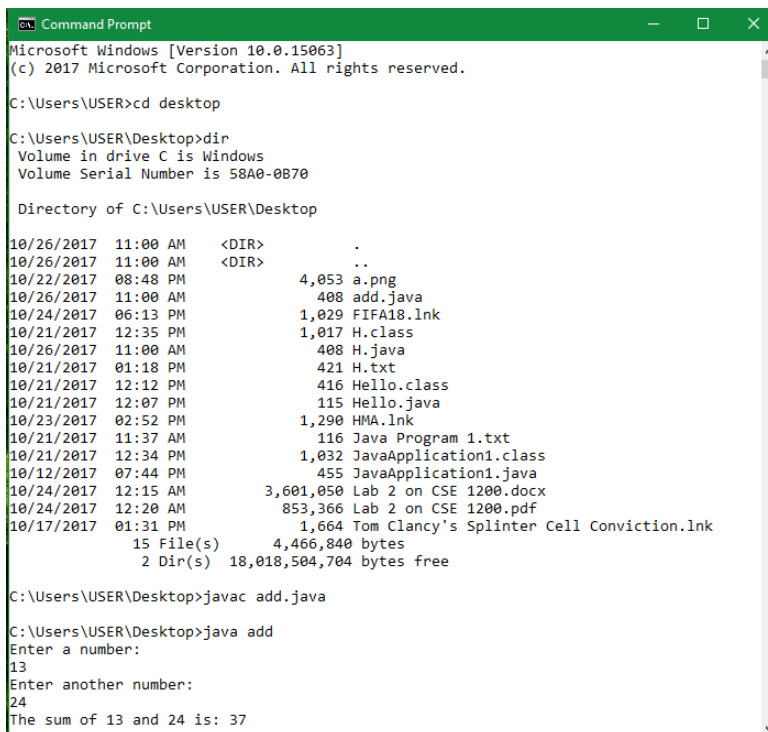


```
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\USER>cd desktop

C:\Users\USER\Desktop>dir
 Volume in drive C is Windows
 Volume Serial Number is 58A0-0B70

 Directory of C:\Users\USER\Desktop

10/26/2017  11:00 AM    <DIR>          .
10/26/2017  11:00 AM    <DIR>          ..
10/22/2017  08:48 PM             4,053 a.png
10/26/2017  11:00 AM               408 add.java
10/24/2017  06:13 PM             1,029 FIFA18.lnk
10/21/2017  12:35 PM             1,017 H.class
10/26/2017  11:00 AM               408 H.java
10/21/2017  01:18 PM               421 H.txt
10/21/2017  12:12 PM               416 Hello.class
10/21/2017  12:07 PM               115 Hello.java
10/23/2017  02:52 PM             1,290 HMA.lnk
10/21/2017  11:37 AM               116 Java Program 1.txt
10/21/2017  12:34 PM             1,032 JavaApplication1.class
10/12/2017  07:44 PM               455 JavaApplication1.java
10/24/2017  12:15 AM         3,601,050 Lab 2 on CSE 1200.docx
10/24/2017  12:20 AM           853,366 Lab 2 on CSE 1200.pdf
10/17/2017  01:31 PM             1,664 Tom Clancy's Splinter Cell Conviction.lnk
              15 File(s)      4,466,840 bytes
               2 Dir(s)  18,018,504,704 bytes free

C:\Users\USER\Desktop>javac add.java

C:\Users\USER\Desktop>java add
Enter a number:
13
Enter another number:
24
The sum of 13 and 24 is: 37
```

Adding two integers and string input by Java in Netbeans

```java
package sum;
import java.util.Scanner;
public class Sum {
    static Scanner hp = new Scanner(System.in);
    public static void main(String[] args) {
        int a, b, c;
        System.out.println("Enter a number: ");
        a = hp.nextInt();
        System.out.println("Enter another number: ");
        b = hp.nextInt();
        c = a + b;
        System.out.print("The sum of " + a + " and " + b + " is: " + c + "\n");
        System.out.println("Enter a String: ");
        String d = hp.next();
        System.out.println("The input String is: " + d + "\n");
    }
}
```

```
run:
Enter a number:
1
Enter another number:
2
The sum of 1 and 2 is: 3
Enter a String:
java
The input String is: java

BUILD SUCCESSFUL (total time: 20 seconds)
```