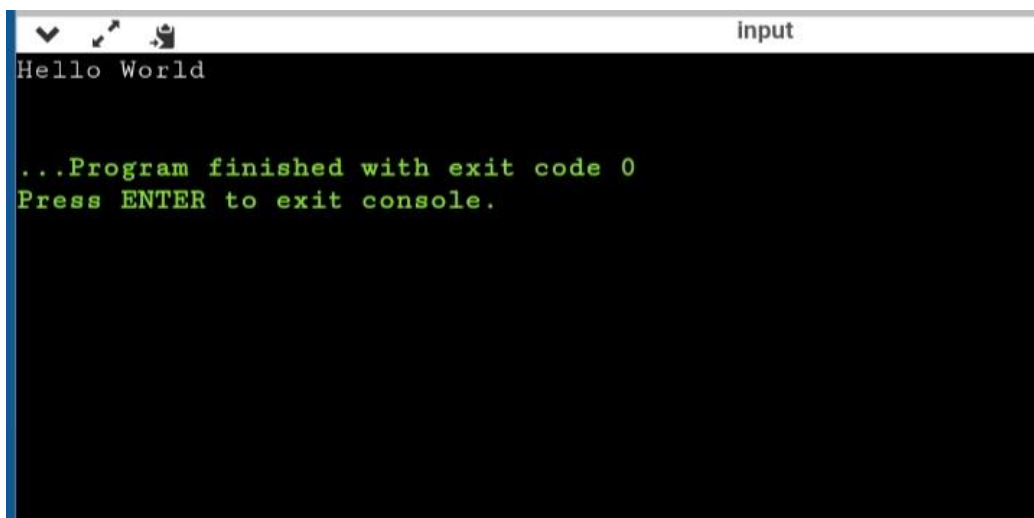


Assignment-1

1. Write a Java program to print "Hello World".

```
public class Main
{
    public static void main(String[]
args) {
        System.out.println("Hello
World");
    }
}
```

Output

A screenshot of a Java IDE's console window. The window has a title bar with standard OS icons and the text 'input'. The console area has a black background with white text. The first line of output is 'Hello World'. The second line is '...Program finished with exit code 0'. The third line is 'Press ENTER to exit console.'.

```
input
Hello World

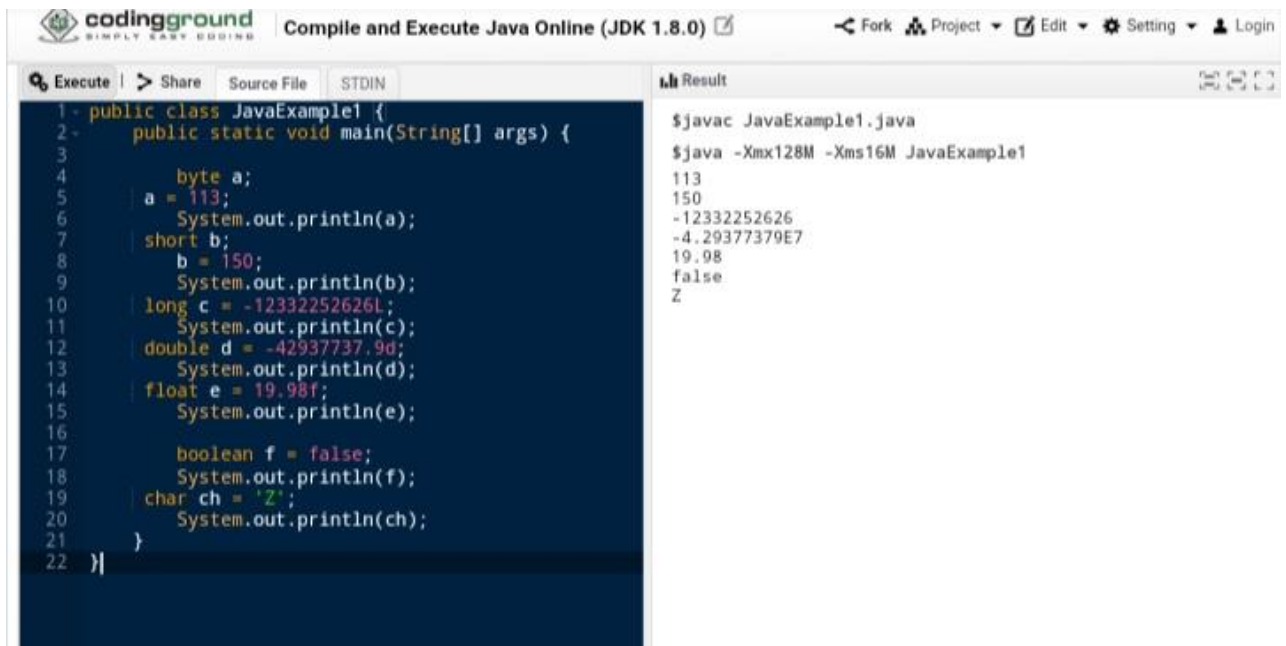
...Program finished with exit code 0
Press ENTER to exit console.
```

2. Write a Java program for declaring variables of all data types

```
public class JavaExample1 {  
    public static void main(String[]  
args) {  
  
        byte a;  
        a = 113;  
        System.out.println(a);  
        short b;  
        b = 150;  
        System.out.println(b);  
        long c = -12332252626L;  
        System.out.println(c);  
        double d = -42937737.9d;  
        System.out.println(d);  
        float e = 19.98f;  
        System.out.println(e);  
    }  
}
```

```
        boolean f = false;
        System.out.println(f);
        char ch = 'Z';
        System.out.println(ch);
    }
}
```

Output



```
codingground
SIMPLY EASY CODING

Compile and Execute Java Online (JDK 1.8.0) Fork Project Edit Setting Login

Execute Share Source File STDIN Result

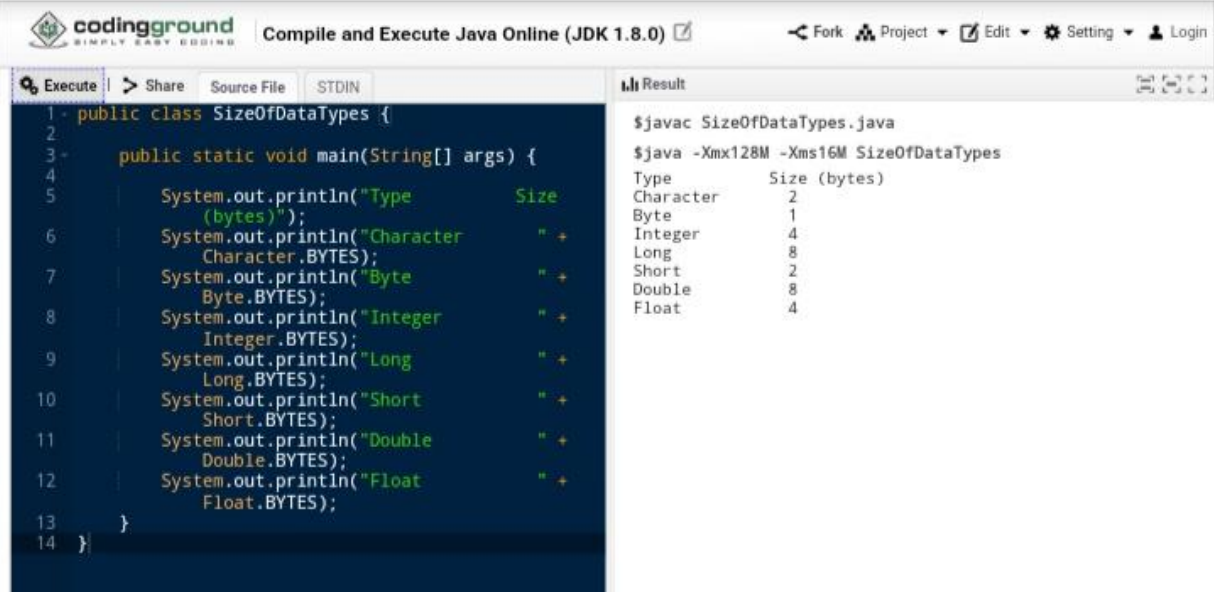
1 public class JavaExample1 {
2     public static void main(String[] args) {
3
4         byte a;
5         a = 113;
6         System.out.println(a);
7         short b;
8         b = 150;
9         System.out.println(b);
10        long c = -12332252626L;
11        System.out.println(c);
12        double d = -42937737.9d;
13        System.out.println(d);
14        float e = 19.98f;
15        System.out.println(e);
16
17        boolean f = false;
18        System.out.println(f);
19        char ch = 'Z';
20        System.out.println(ch);
21    }
22 }
```

```
$javac JavaExample1.java
$java -Xmx128M -Xms16M JavaExample1
113
150
-12332252626
-4.29377379E7
19.98
false
Z
```

3. Write a Java Program to find size of different data type

```
public class SizeOfDataTypes {  
  
    public static void main(String[] args) {  
  
        System.out.println("Type          Size (bytes)");  
        System.out.println("Character      " + Character.BYTES);  
        System.out.println("Byte        " + Byte.BYTES);  
        System.out.println("Integer     " + Integer.BYTES);  
        System.out.println("Long        " + Long.BYTES);  
        System.out.println("Short       " + Short.BYTES);  
        System.out.println("Double      " + Double.BYTES);  
        System.out.println("Float       " + Float.BYTES);  
    }  
}
```

Output



The screenshot shows a Java online compiler interface. The source code is as follows:

```
1 public class SizeOfDataTypes {  
2  
3     public static void main(String[] args) {  
4  
5         System.out.println("Type          Size  
6             (bytes)");  
7         System.out.println("Character      " +  
8             Character.BYTES);  
9         System.out.println("Byte        " +  
10            Byte.BYTES);  
11        System.out.println("Integer     " +  
12            Integer.BYTES);  
13        System.out.println("Long        " +  
14            Long.BYTES);  
15        System.out.println("Short       " +  
16            Short.BYTES);  
17        System.out.println("Double      " +  
18            Double.BYTES);  
19        System.out.println("Float       " +  
20            Float.BYTES);  
21    }  
22 }
```

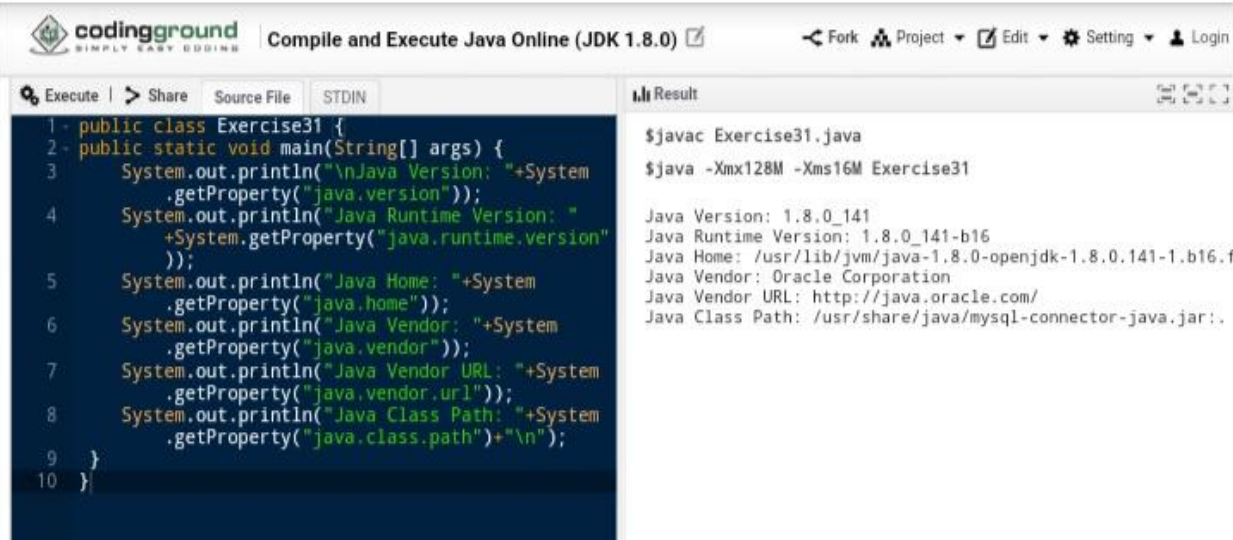
The output of the program is displayed in the Result tab:

```
$javac SizeOfDataTypes.java  
$java -Xmx128M -Xms16M SizeOfDataTypes  
Type          Size (bytes)  
Character      2  
Byte           1  
Integer        4  
Long           8  
Short          2  
Double         8  
Float          4
```

4. Write a Java program to check whether Java is installed on your computer.

```
public class Exercise31 {  
    public static void main(String[] args) {  
        System.out.println("\nJava Version:  
"+System.getProperty("java.version"));  
        System.out.println("Java Runtime Version:  
"+System.getProperty("java.runtime.version"));  
        System.out.println("Java Home:  
"+System.getProperty("java.home"));  
        System.out.println("Java Vendor:  
"+System.getProperty("java.vendor"));  
        System.out.println("Java Vendor URL:  
"+System.getProperty("java.vendor.url"));  
        System.out.println("Java Class Path:  
"+System.getProperty("java.class.path")+"\n");  
    }  
}
```

Output



The screenshot shows the CodingGround online IDE interface. The top bar includes the logo, the title "Compile and Execute Java Online (JDK 1.8.0)", and navigation links for Fork, Project, Edit, Setting, and Login. The main area is divided into two panels: "Source File" and "Result".

Source File:

```
1 public class Exercise31 {  
2     public static void main(String[] args) {  
3         System.out.println("\nJava Version: "+System  
4             .getProperty("java.version"));  
5         System.out.println("Java Runtime Version: "  
6             +System.getProperty("java.runtime.version"  
7             ));  
8         System.out.println("Java Home: "+System  
9             .getProperty("java.home"));  
10        System.out.println("Java Vendor: "+System  
11            .getProperty("java.vendor"));  
12        System.out.println("Java Vendor URL: "+System  
13            .getProperty("java.vendor.url"));  
14        System.out.println("Java Class Path: "+System  
15            .getProperty("java.class.path")+"\n");  
16    }  
17 }
```

Result:

```
$javac Exercise31.java  
$java -Xmx128M -Xms16M Exercise31  
  
Java Version: 1.8.0_141  
Java Runtime Version: 1.8.0_141-b16  
Java Home: /usr/lib/jvm/java-1.8.0-openjdk-1.8.0.141-1.b16.f  
Java Vendor: Oracle Corporation  
Java Vendor URL: http://java.oracle.com/  
Java Class Path: /usr/share/java/mysql-connector-java.jar:
```