

EC/2022/053  
Tutorial 02  
BECS 12243

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1.

```
public class Example{  
    public static void main(String[] atgs){  
        System.out.println("Hello! My name is Kavindu and I am excited to learn  
        Java.");  
    }  
}
```

```
Microsoft Windows [Version 10.0.22000.3260]  
(c) Microsoft Corporation. All rights reserved.  
  
D:\Users\galkotu-ec22053\Documents>java Example  
Hello! My name is Kavindu and I am excited to learn Java.  
  
D:\Users\galkotu-ec22053\Documents>
```

2.

```
D:\Users\galkotu-ec22053\Documents>javac Example.java  
  
D:\Users\galkotu-ec22053\Documents>javac Example.java  
Example.java:1: error: '{' expected  
public class Example  
                ^  
1 error  
  
D:\Users\galkotu-ec22053\Documents>_
```

```
1 error  
  
D:\Users\galkotu-ec22053\Documents>javac Example.java  
Example.java:3: error: ';' expected  
System.out.println("Hello! My name is Kavindu and I am excited to learn Java.")  
                                                ^  
1 error  
  
D:\Users\galkotu-ec22053\Documents>_
```

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```
error
D:\Users\galkotu-ec22053\Documents>javac Example.java
Example.java:4: error: reached end of file while parsing
^
error
D:\Users\galkotu-ec22053\Documents>
```

---

3.

```
import java.util.Scanner;

public class Example{
    public static void main(String[] atgs){
        System.out.println("Enter a Number");
        Scanner scanobj = new Scanner(System.in);
        int intgerforstore;
        intgerforstore = scanobj.nextInt();

        System.out.println("Number is "+intgerforstore);

    }
}
```

```
D:\Users\galkotu-ec22053\Documents>java Example
Enter a Number
77
Number is 77
```

---- or ----

---

```
import java.util.Scanner;

public class Example{
    public static void main(String[] atgs){
        System.out.println("Enter a Number");
```

```
int intgerforstore = Integer.valueOf(atgs[0]);  
System.out.println("Number is "+intgerforstore);  
}  
}
```

---

4.

```
import java.util.Scanner;  
import java.util.*;  
  
public class Example{  
    public static void main(String[] atgs){  
        System.out.println("Enter Number 1");  
        Scanner scanobj = new Scanner(System.in);  
        int int1;int int2;  
        int1 = scanobj.nextInt();  
        System.out.println("Enter Number 2");  
        int2 = scanobj.nextInt();  
  
        System.out.println("You Entered: "+(int1) + " and "+(int2));  
        System.out.println("Sum: "+(int1+int2));  
        System.out.println("Difference: "+(int1-int2));  
        System.out.println("Product: "+(int1*int2));  
        System.out.println("Quotient: "+(int1/int2));  
        System.out.println("Remainder: "+(int1%int2));  
  
    }  
}
```

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```
D:\Users\galkotu-ec22053\Documents>javac Example.java
D:\Users\galkotu-ec22053\Documents>javac Example.java
D:\Users\galkotu-ec22053\Documents>java Example
Enter Number 1
7
Enter Number 2
5
You Entered: 7 and 5
Sum: 12
Difference: 2
Product: 35
Quotient: 1
Remainder: 2

D:\Users\galkotu-ec22053\Documents>java Example
Enter Number 1
5
Enter Number 2
2
You Entered: 5 and 2
Sum: 7
Difference: 3
Product: 10
Quotient: 2
Remainder: 1
```

----- or -----

```
import java.util.Scanner;

import java.util.*;

public class Example{

public static void main(String[] atgs){

    int int1;int int2;

    int1 = Integer.valueOf(atgs[0]);

    int2 = Integer.valueOf(atgs[1]);

    System.out.println("You Entered: "+(int1) + " and "+(int2));

    System.out.println("Sum: "+(int1+int2));

    System.out.println("Difference: "+(int1-int2));

    System.out.println("Product: "+(int1*int2));

    System.out.println("Quotient: "+(int1/int2));

    System.out.println("Remainder: "+(int1%int2));

}

}
```

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```
D:\Users\galkotu-ec22053\Documents>java Example 23 233
Difference: -1
Product: 6
Quotient: 0
Remainder: 2
D:\Users\galkotu-ec22053\Documents>java Example 23 233
You Entered: 23 and 233
Sum: 256
Difference: -210
Product: 5359
Quotient: 0
Remainder: 23
D:\Users\galkotu-ec22053\Documents>java Example 5 7
You Entered: 5 and 7
Sum: 12
Difference: -2
Product: 35
Quotient: 0
Remainder: 5
D:\Users\galkotu-ec22053\Documents>java Example 3 2
You Entered: 3 and 2
Sum: 5
Difference: 1
Product: 6
Quotient: 1
Remainder: 1
```

```
import java.util.Scanner;

import java.util.*;

public class Example{

public static void main(String[] atgs){

    int int1;int int2;

    int1 = Integer.valueOf(atgs[0]);

    int2 = Integer.valueOf(atgs[1]);

    System.out.println("You Entered: "+(int1) + " and "+(int2));

    System.out.println("Sum: "+(int1+int2));

    System.out.println("Difference: "+(int1-int2));

    System.out.println("Product: "+(int1*int2));

    System.out.println("Quotient: "+(int1/int2));

    System.out.println("Remainder: "+(int1%int2));

}

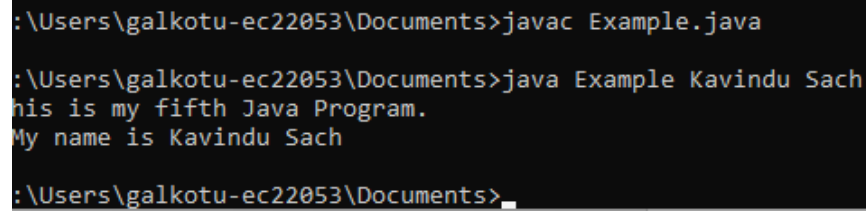
}
```

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05.

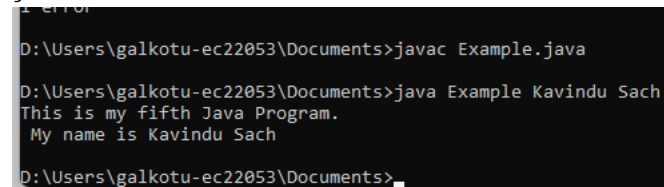
```
import java.util.Scanner;
import java.util.*;
public class Example{
    public static void main(String[] atgs){
        String name = StringUtils.join(atgs);
        System.out.println("This is my fifth Java Program. ");
        System.out.println(" My name is "+name[0]+ " "+name[1]);
    }
}
```



```
: \Users\galkotu-ec22053\Documents> javac Example.java
: \Users\galkotu-ec22053\Documents> java Example Kavindu Sach
his is my fifth Java Program.
My name is Kavindu Sach
: \Users\galkotu-ec22053\Documents> _
```

6.

```
import java.util.Scanner;
import java.util.*;
public class Example{
    public static void main(String[] atgs){
        String name = StringUtils.join(atgs);
        System.out.println("This is my fifth Java Program. \nMy name is "+name[0]+ "
        "+name[1]);
    }
}
```

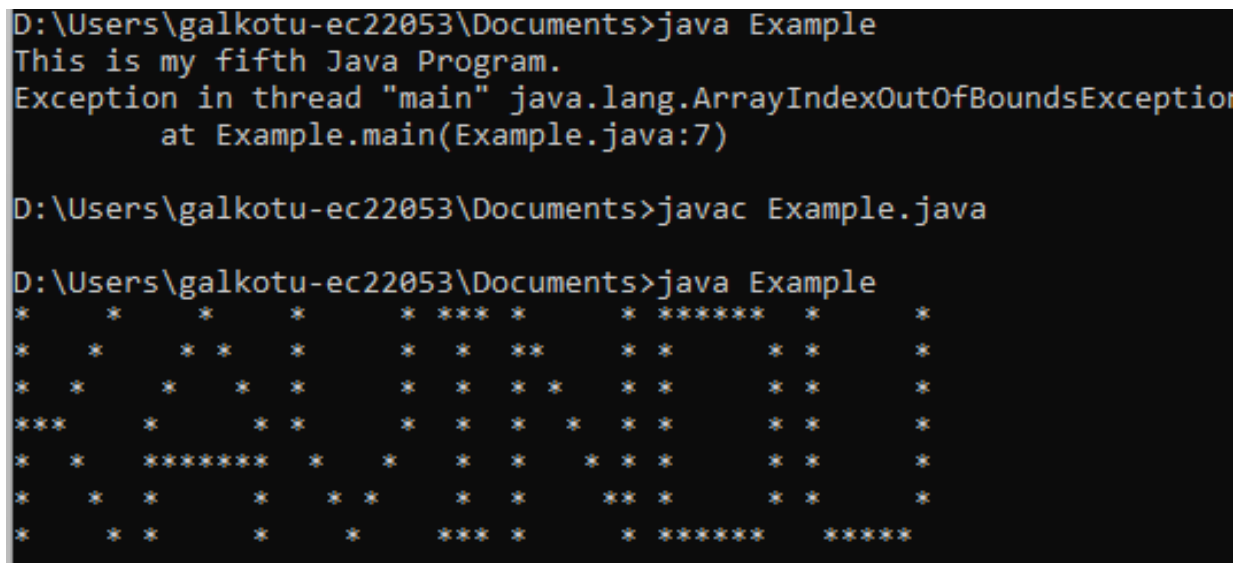


```
D: \Users\galkotu-ec22053\Documents> javac Example.java
D: \Users\galkotu-ec22053\Documents> java Example Kavindu Sach
This is my fifth Java Program.
My name is Kavindu Sach
D: \Users\galkotu-ec22053\Documents> _
```

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7.

```
import java.util.Scanner;  
import java.util.*;  
public class Example{  
    public static void main(String[] atgs){  
  
        System.out.println("*      *      *      * *** *      * ***** *      * ");  
        System.out.println("*      * *      *      * * **      * *      * *      * ");  
        System.out.println("* *      *      *      * * * *      * *      * *      * ");  
        System.out.println("***      *      * *      * * * * * * *      * *      * ");  
        System.out.println("* *      ***** *      * * * *      * * *      * *      * ");  
        System.out.println("* * *      * * *      * *      * * *      * *      * ");  
        System.out.println("* * *      *      *      * * *      * ***** ***** ");  
    }  
}
```



The screenshot shows a command prompt window with the following text:

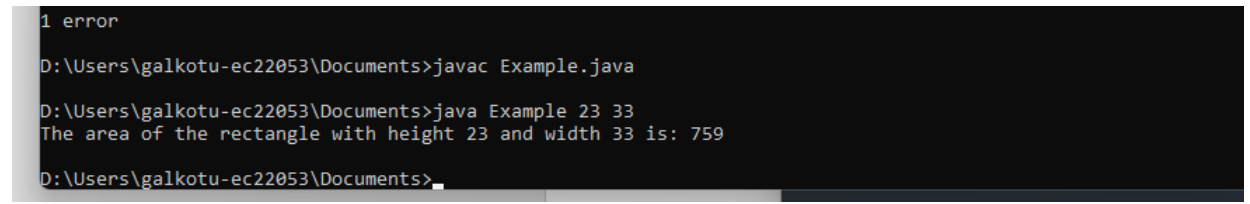
```
D:\Users\galkotu-ec22053\Documents>java Example  
This is my fifth Java Program.  
Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException  
    at Example.main(Example.java:7)  
  
D:\Users\galkotu-ec22053\Documents>javac Example.java  
  
D:\Users\galkotu-ec22053\Documents>java Example  
*      *      *      * *** *      * ***** *      *  
*      * *      *      * * **      * *      * *      *  
* *      *      *      * * * *      * *      * *      *  
***      *      * *      * * * * * * *      * *      *  
* *      ***** *      * * * *      * * *      * *      *  
* * *      * * *      * *      * * *      * *      *  
* * *      *      *      * * *      * ***** *****
```

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8.

```
import java.util.*;

public class Example{
    public static void main(String[] atgs){
        System.out.println("The area of the rectangle with height "+atgs[0] +" and
width "+atgs[1]+" is: "+Integer.parseInt(atgs[0])*Integer.parseInt(atgs[1]));
    }
}
```



```
1 error
D:\Users\galkotu-ec22053\Documents>javac Example.java
D:\Users\galkotu-ec22053\Documents>java Example 23 33
The area of the rectangle with height 23 and width 33 is: 759
D:\Users\galkotu-ec22053\Documents>
```

9.

```
import java.util.*;

public class Example{
    public static void main(String[] atgs){
        System.out.println("You entered: "+atgs[0]);
        System.out.println("Squire:
"+(Integer.parseInt(atgs[0])*Integer.parseInt(atgs[0])));
        System.out.println("Cube:
"+(Integer.parseInt(atgs[0])*Integer.parseInt(atgs[0])*Integer.parseInt(atgs[0]
]));
    }
};
}
```



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```
at Example.main(Example.java:5)
```

```
D:\Users\galkotu-ec22053\Documents>java Example 5
```

```
You entered: 5
```

```
Square: 25
```

```
Cube: 125
```

```
D:\Users\galkotu-ec22053\Documents>_
```