

***** OUTPUT *****

Validation check:

Second section is over 60

```
Enter duration such as mm:ss  such as 120:45
23:99
this is input: 23:99
this is length input: 5
23
99
Number seconds is 60 or over
Total number seconds is: -1
```

Missing colon symbol

```
Welcome to Online IDE!! Happy Coding :)
Enter duration such as mm:ss  such as 120:45
4523
this is input: 4523
this is length input: 4
Enter duration such as mm:ss  such as 120:45
```

Further validation is not completed of the string integrity, potentially failing on conversion to int.
Not scope of task:

```
Welcome to Online IDE!! Happy Coding :)
Enter duration such as mm:ss  such as 120:45
3:44df
this is input: 3:44df
this is length input: 6
3
Exception in thread "main" java.lang.NumberFormatException: For input string: "44df"
    at java.base/java.lang.NumberFormatException.forInputString(NumberFormatException.java:65)
    at java.base/java.lang.Integer.parseInt(Integer.java:652)
```

**** Functional output: ****

```
Welcome to Online IDE!! Happy Coding :)
Enter duration such as mm:ss  such as 120:45
100:40
this is input: 100:40
this is length input: 6
100
40
Total number seconds is: 6040
```

*** CODE ***

```
/*
```

Online Java - IDE, Code Editor, Compiler

Online Java is a quick and easy tool that helps you to build, compile, test your programs online.

```
*/
```

```
import java.util.*;
```

```
public class Main
```

```
{
```

```
    public static void main(String[] args) {
```

```
        minutesToSeconds ms;
```

```
        System.out.println("Welcome to Online IDE!! Happy Coding :)");
```

```
        boolean checkcolon=false;
```

```
        //do
```

```
        //{
```

```
        System.out.println("Enter duration such as mm:ss  such as 120:45");
```

```
        Scanner scanner = new Scanner (System.in);
```

```
        String input = scanner.next();
```

```
        ms = new  minutesToSeconds(input);
```

```
        System.out.println("Total number seconds is: " + ms.numberSeconds());
```

```
    }
```

```
}
```

```
class minutesToSeconds
```

```
{
```

```
    int pos=0;
```

```

String input;
boolean checkcolon;
int secondsConverted;
int minutesConverted;
int totalSeconds;
boolean secondsOverSixty=false;

public minutesToSeconds (String time)
{
    this.input=time;
    System.out.println("this is input: " + input);
    System.out.println("this is length input: " + input.length());

    for (int i=0; i<input.length(); i++)
    {
        pos=input.indexOf(':');
    }

    if (pos!=-1)
    {
        checkcolon=true;
    }
    else
    {
        System.out.println("Enter duration such as mm:ss  such as 120:45");
        System.exit(0);
    }

    checkMinutes(input);
    checkSeconds(input);

}

public int checkMinutes(String time)
{
    String minutes = time.substring(0,pos);
    minutesConverted = Integer.valueOf(minutes);
    System.out.println(minutes);
    return minutesConverted;
}

public int numberSeconds()
{
    if(secondsOverSixty)
    {
        return -1;
    }

    totalSeconds = (minutesConverted*60) + secondsConverted;

```

```
    return totalSeconds;  
}
```

```
public int checkSeconds(String time)  
{  
  
    String seconds = time.substring(pos+1,time.length());  
  
    secondsConverted = Integer.valueOf(seconds);  
    System.out.println(seconds);  
  
    if (secondsConverted>=60)  
    {  
        System.out.println("Number seconds is 60 or over");  
        secondsOverSixty=true;  
  
        //return -1;  
  
    }  
    return secondsConverted;  
}  
  
}
```