

# test

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## Input from user

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

String name = sc.nextLine();
```

```
InputStreamReader isr = new InputStreamReader(System.in);

int i = isr.read();
```

```
InputStreamReader isr = new InputStreamReader(System.in);
BufferedReader br = new BufferedReader(isr);

int i = br.read();
String s = br.readLine();
```

## Input from File

```
File file = new File("input.txt");
Scanner sc = new Scanner(file);
while(sc.hasNextLine()){
    System.out.println(sc.nextLine());
}
```

```
File file = new File("input.txt");
FileReader fr = new FileReader(file);
BufferedReader br = new BufferedReader(fr);
String line;
while((line = br.readLine()) != null){
    System.out.println(line);
}
```

## Output to file

```
FileWriter writer = new FileWriter("output.txt");
```

```
writer.write("Hello World!");
```

```
FileWriter writer = new FileWriter("output.txt");  
BufferedWriter bw = new BufferedWriter(writer);  
  
bw.write("Hello World!");  
bw.close();
```

## String

```
charAt()  
indexOf() // ch, ch from_ind, str, str from_ind  
contains()  
substring() // start_ind, start_ind end_ind  
toLowerCase()  
toUpperCase()
```

## Character

```
getNumericValue()  
isLetterOrDigit()
```

## Integer

```
parseInt()  
toBinaryString()  
toOctalString()  
toHexString()
```

## Random no

```
import java.util.Random  
  
Random rand = new Random();  
rand.nextInt(from_including, upto_not_including);
```