Class java.io.PrintStream

```
java.lang.Object
   |
   +----java.io.OutputStream
           |
           +----java.io.FilterOutputStream
                   |
                   +----java.io.PrintStream
```

---

public class **PrintStream**
extends FilterOutputStream

This class implements an output stream that has additional methods for printing. You can specify that the stream should be flushed every time a newline character is written.

The top byte of 16 bit characters is discarded.

Example:

```
System.out.println("Hello world!");
System.out.print("x = ");
System.out.println(x);
System.out.println("y = " + y);
```

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o **PrintStream**(OutputStream)
Creates a new PrintStream.
o **PrintStream**(OutputStream, boolean)
Creates a new PrintStream, with auto flushing.

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  Closes the stream.
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  Flushes the stream.
- **print**(Object)
  Prints an object.
- **print**(String)
  Prints a String.
- **print**(char[])
  Prints an array of characters.
- **print**(char)
  Prints an character.
- **print**(int)
  Prints an integer.
- **print**(long)
  Prints a long.
- **print**(float)
  Prints a float.
- **print**(double)
  Prints a double.
- **print**(boolean)
  Prints a boolean.
- **println**()
  Prints a newline.
- **println**(Object)
  Prints an object followed by a newline.
- **println**(String)
  Prints a string followed by a newline.
- **println**(char[])
  Prints an array of characters followed by a newline.
- **println**(char)
  Prints a character followed by a newline.
- **println**(int)
  Prints an integer followed by a newline.
- **println**(long)
  Prints a long followed by a newline.
- **println**(float)
  Prints a float followed by a newline.
- **println**(double)
  Prints a double followed by a newline.
- **println**(boolean)
  Prints a boolean followed by a newline.
- **write**(int)
  Writes a byte.
- **write**(byte[], int, int)
  Writes a sub array of bytes.

Constructors

o **PrintStream**

```
public PrintStream(OutputStream out)
```

Creates a new PrintStream.
Parameters:
out – the output stream

o **PrintStream**

```
public PrintStream(OutputStream out,
                   boolean autoflush)
```

Creates a new PrintStream, with auto flushing.
Parameters:
out – the output stream
autoflush – if true the stream automatically flushes its output when a newline character is printed

Methods

o **write**

```
public void write(int b)
```

Writes a byte. This method will block until the byte is actually written.
Parameters:
b – the byte
Throws: IOException
If an I/O error has occurred.
Overrides:
write in class FilterOutputStream

o **write**

```
public void write(byte b[],
                  int off,
                  int len)
```

Writes a sub array of bytes.
Parameters:
b – the data to be written
off – the start offset in the data
len – the number of bytes that are written
Throws: IOException
If an I/O error has occurred.
Overrides:

write in class FilterOutputStream

o **flush**

```
public void flush()
```

Flushes the stream. This will write any buffered output bytes.
Overrides:
flush in class FilterOutputStream

o **close**

```
public void close()
```

Closes the stream.
Overrides:
close in class FilterOutputStream

o **print**

```
public void print(Object obj)
```

Prints an object.
Parameters:
obj – the object to be printed

o **print**

```
public synchronized void print(String s)
```

Prints a String.
Parameters:
s – the String to be printed

o **print**

```
public synchronized void print(char s[])
```

Prints an array of characters.
Parameters:
s – the array of chars

o **print**

```
public void print(char c)
```

Prints an character.
Parameters:
c – the character to be printed

o **print**

```
public void print(int i)
```

Prints an integer.
Parameters:
i – the integer to be printed

o **print**

```
public void print(long l)
```

Prints a long.
Parameters:
l – the long

o **print**

```
public void print(float f)
```

Prints a float.
Parameters:
f – the float to be printed

o **print**

```
public void print(double d)
```

Prints a double.
Parameters:
d – the double to be printed

o **print**

```
public void print(boolean b)
```

Prints a boolean.
Parameters:
b – the boolean to be printed

o **println**

```
public void println()
```

Prints a newline.

o **println**

```
public synchronized void println(Object obj)
```

Prints an object followed by a newline.

Parameters:

obj – the object to be printed

o **println**

```
public synchronized void println(String s)
```

Prints a string followed by a newline.

Parameters:

s – the String to be printed

o **println**

```
public synchronized void println(char s[])
```

Prints an array of characters followed by a newline.

Parameters:

s – the array of characters to be printed

o **println**

```
public synchronized void println(char c)
```

Prints a character followed by a newline.

Parameters:

c – the character to be printed

o **println**

```
public synchronized void println(int i)
```

Prints an integer followed by a newline.

Parameters:

i – the integer to be printed

o **println**

```
public synchronized void println(long l)
```

Prints a long followed by a newline.

Parameters:

l – the long to be printed

o **println**

```
public synchronized void println(float f)
```

Prints a float followed by a newline.

Parameters:

f – the float to be printed

o **println**

```
public synchronized void println(double d)
```

Prints a double followed by a newline.

Parameters:

d – the double to be printed

o **println**

```
public synchronized void println(boolean b)
```

Prints a boolean followed by a newline.

Parameters:

b – the boolean to be printed