Still 10
in Java:
nd!
it the end
Assir 2
that I c
oat
ar
ring
wy .

- 1. System.out.print()
- 2. System.out.println()
 - 3. System.out.printf()
 - 4. System.out.format()

- *. Println mai ham sirf single command pass kar sakta hai.
- *. Agar hma ek sa jayda chij print karna hoto hma "concatenation" karna hoga.
- **. During concatenation, ham first object ka baad "+" ka use karta hai aur jitna baar concatenate karna hota hai utna baar "+" ka use karta hai after each object.

Output: 30 Sum

5.0.p ("sum"+(+4)),

Ya par both given example meaning is different.

Output: " Sum 1020

> *. Ise condition mai phela sum hoga then concatenate hoga.

*. Ise condition mai series of concatination hoga.

Printing



Agar hma add karna ho then (x+y) ka use karna hoga kyuki "()" ka priority order high hota hai.

Printing

Argument index ka use ham tab karta hai jab kisi specific index ka item ko print karna ho.

Format Specifier

%[argument_index\$][flags][width][.precision]conversion

argument index - 1\$, 2\$, 3\$

flag '-', '+', 10, '', '('

Width ka use tab hota hai jab kuch specific space ka baad kisi item ko print karna hota hai.

Flag ka use different trah sai hot hai. Some common as follow:

For integer:

karna ka karta hai.

- i) O
 ightarrow iseka use jo blank space aaya hai width ki wja sai usko zero sai fill
- ii) + → iska use kisi bhi digit ka sign ko show karna ka liya karta hai.
- iii) (\rightarrow iska use agar input -ve hai to usa +ve mai convert kai bracket mai show karna ka liya karta hai.

For string:

- i) $+ \rightarrow$ align toward right after sapce as per width given.
- ii) \rightarrow align toward left after sapce as per width given.

char c
int d, o, x
float f, e, g
String s

conversion -

Precision ka use ham mostly float data type mai karta hai. Iska help sai ham decimal ka baad jitna value chahiya utna value print karwa sakta hai.

```
2
      package printing;
 3
 4
      public class Printing {
 5
 6
           public static void main(String[] args) {
 8
                int x=10;
 9
                float y=12.56f;
10
                char z='A';
11
12
              System.out.printf("Hello %d %f %c World\n",x,y,z);
13
14
15
16
                                           Output - Printing (run)
   ant -f /Users/abdulbari/NetBeansProjects/Printing -Dnb.internal.action.name=run run
   init:
   Deleting: /Users/abdulbari/NetBeansProjects/Printing/build/built-jar.properties
   deps-jar:
   Updating property file: /Users/abdulbari/NetBeansProjects/Printing/build/built-jar.properties
   Compiling 1 source file to /Users/abdulbari/NetBeansProjects/Printing/build/classes
   compile:
   run:
   Hello 10 12.560000 A World
   BUILD SUCCESSFUL (total time: 0 seconds)
```

```
2
      package printing;
 3
 4
      public class Printing {
 5
           public static void main(String[] args) {
 6
 8
               int x=10;
 9
                float y=0.0012f;
               char z='A';
10
               String str="Java Program";
11
12
              System.out.printf("%3$s %2$f %1$d",x,y,str);
13
14
15
16
17
                                          Output - Printing (run)
  ant -f /Users/abdulbari/NetBeansProjects/Printing -Dnb.internal.action.name=run run
  init:
  Deleting: /Users/abdulbari/NetBeansProjects/Printing/build/built-jar.properties
  deps-jar:
  Updating property file: /Users/abdulbari/NetBeansProjects/Printing/build/built-jar.properties
  Compiling 1 source file to /Users/abdulbari/NetBeansProjects/Printing/build/classes
  compile:
  run:
  Java Program 0.001200 10BUILD SUCCESSFUL (total time: 0 seconds)
```

1

Format Specifier	Data Type	Output
%a	floating point (except BigDecima I)	Returns Hex output of floating-point number.
%b	Any type	" true " if non-null, " false " if null
%с	Character	Unicode character
%d	integer (incl. byte, short, int, long, bigint)	Decimal Integer
%e	floating point	Decimal number in scientific notation
%f	floating point	Decimal number
%g	floating point	Decimal number, possibly in scientific notation depending on the precision and value.
%h	any type	Hex String of value from hashCode() method.
%n	None	Platform-specific line separator.
%0	integer (incl. byte, short, int, long, bigint)	Octal number
%s	any type	String value
%t	Date/Time (incl. long, Calendar, Date and TemporalAccessor)	%t is the prefix for Date/Time conversions. More formatting flags are needed after this. See Date/Time conversion below.
%x	integer (incl. byte, short, int, long, bigint)	Hex string.