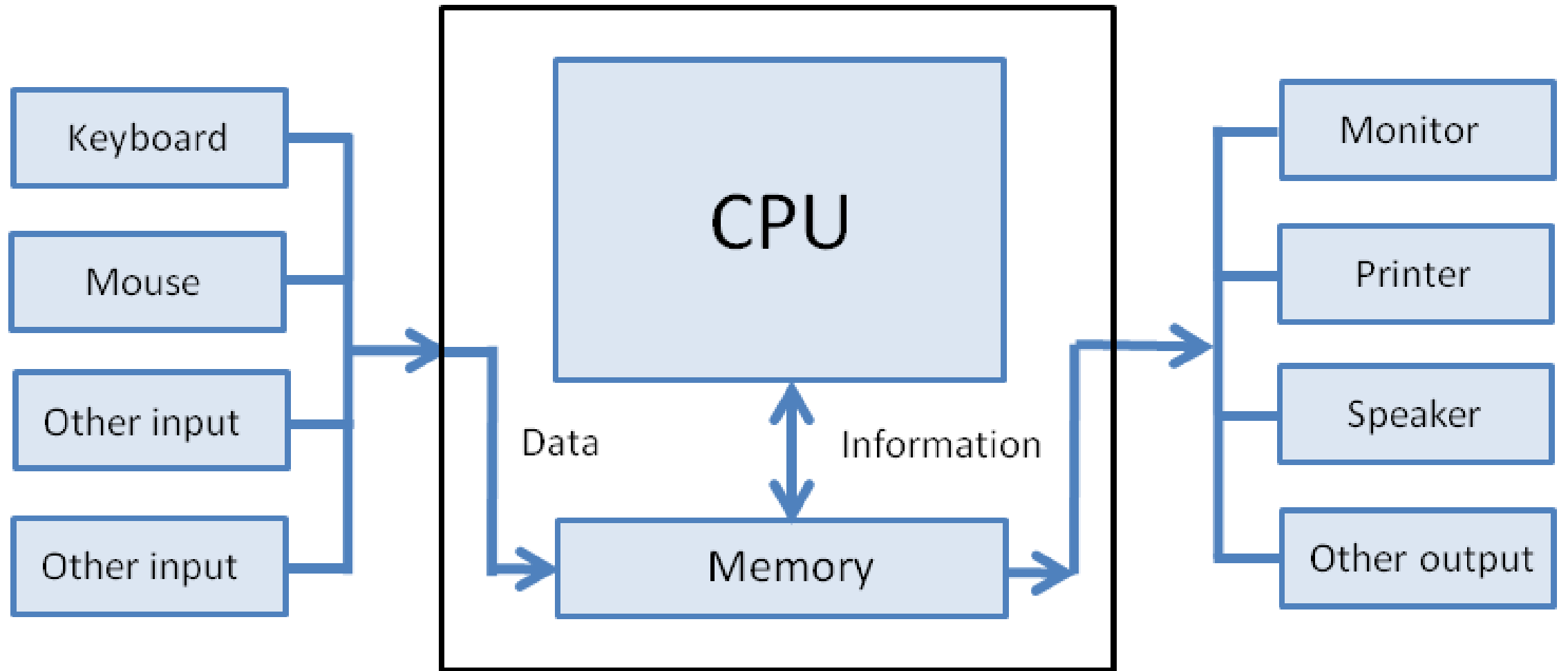


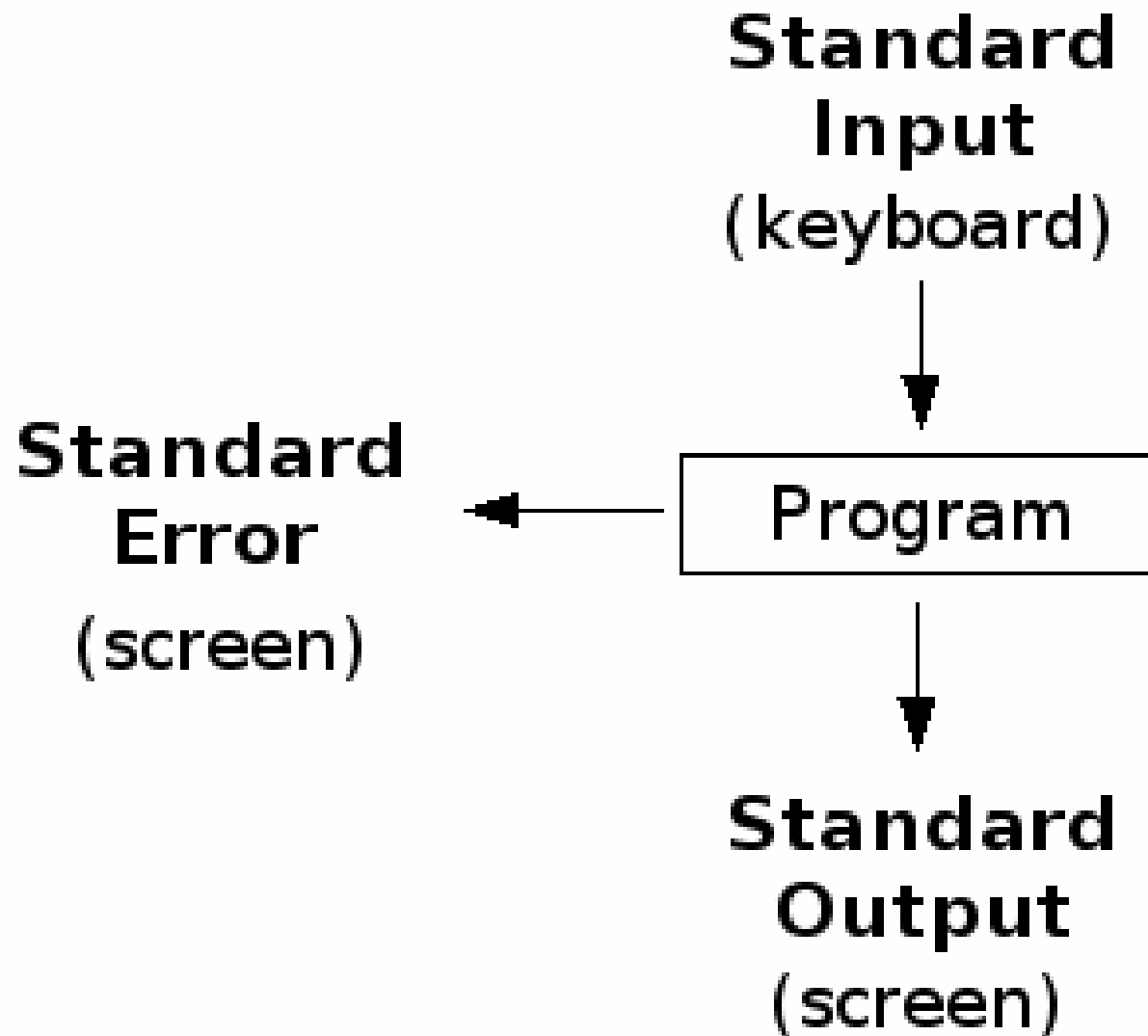
Java for Beginners

DATA INPUT

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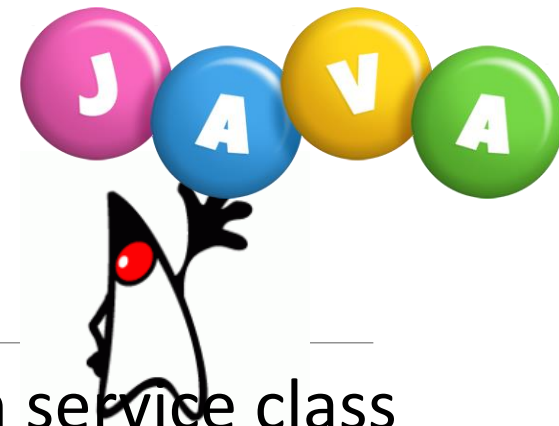


Input Stream **System.in**

Scanner Class: Take raw data from System.in stream and convert them to tokens of different types.

Output Stream **System.out**

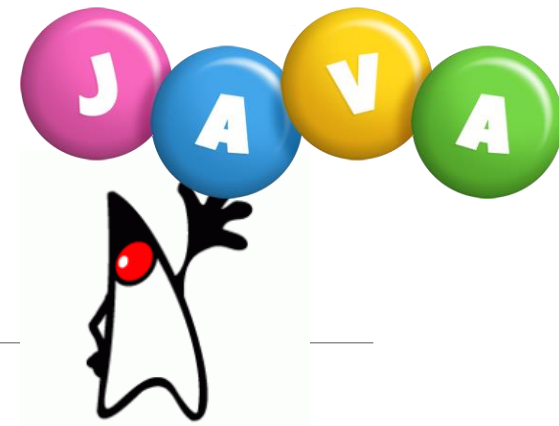
print(), println(), printf()
Send Strings to screen



Simple Example Program

```
import java.util.Scanner; // Import the Token interpretation service class

class Circle{
    public static void main(String[] args){
        Scanner input = new Scanner(System.in); // declare an interpreter for
        System.in
        double radius = input.nextDouble(); // read a double data
        double area = Math.PI * radius * radius;
        System.out.println("Circle Radius="+radius+" Area="+area);
    }
}
```



Data Input

Input Stream: a stream of data coming from keyboard or file.

System.in: input stream from computer console (keyboard)

Declaration of an input stream handler: `Scanner input = new Scanner(System.in);`

Read in an integer: `int a = input.nextInt();` // nextInt() is a method to read in an integer

Read in a double: `double w = input.nextDouble();`

// nextDouble() read in a double value

// You may read in two numbers in a line. The two numbers spaced by a “space”