

Object Oriented Programming BS (CS/SE) II

By

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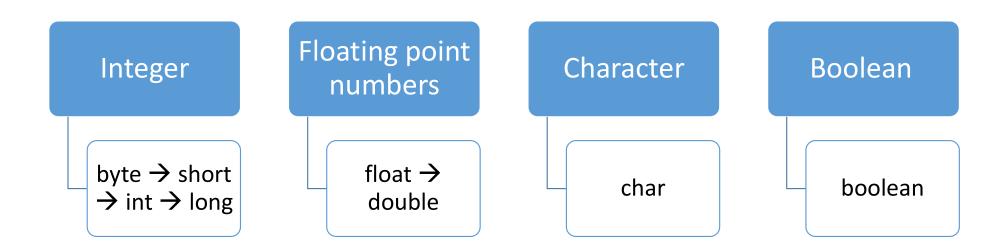
Java is Strongly Typed Language

- Compiler is the Boss
 - Every Declaration must have a data type

Primitive Data Types

• A set of basic data types from which all other data types are constructed.

Primitive Types



Integer

Name	Width	Range	
long	64	-9,223,372,036,854,775,808 to 9,223,372,036,854,775,807	
int	32	-2,147,483,648 to 2,147,483,647	
short	16	-32,768 to 32,767	
byte	8	-128 to 127	



Code: "LightTravel"

How many mile light travels in 1000 days? Remember it travels 186000 miles/second

Floating Point Type

Name	Width in Bits	Approximate Range
double	64	4.9e-324 to 1.8e+308
float	32	1.4e-045 to 3.4e+038

Taking Input

Package:

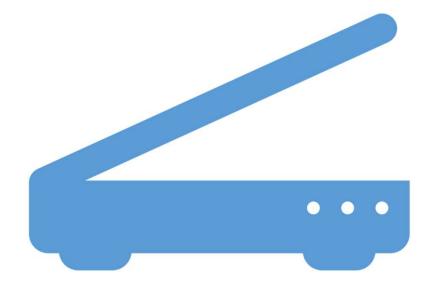
java.util

Class:

Scanner

Syntax:

import java.util.Scanner;



Program to take Input of different data types

```
import java.util.Scanner;
class FirstProgram{
public static void main(String args[]){
Scanner scan=new Scanner(System.in);
  //int types
       byte b1=scan.nextByte();
       int i1=scan.nextInt();
       short s1=scan.nextShort();
       long l1=scan.nextLong();
       //float and double
       float f1=scan.nextFloat();
       double d1=scan.nextDouble();
       //char
       char c1=scan.next().charAt(0);
       //String
       String str1=scan.nextLine();
}
```