

Limitation of Command Line Argument :

As we know by using Command Line Argument, we can pass some value at runtime. These values are stored in String array variable and then only the execution of the program will be started. The basic limitation of Command Line Argument is, we can't ask to enter the value from our end user as shown in the Program.

CommandLineArgument.java

void main(String [] args) {
 //Will executed after providing the value
 char gender = args[0].charAt(0);
 System.out.println("Your gender is " + gender);
}

* In order to avoid this limitation, Java software people has introduced Scanner class to accept the input from the user.

* The following are the ways to accept the input from the user :
1) By using Scanner class (class of java.io package)
2) By using BufferedReader class (class of java.io package)
3) By using Console class (class of java.io package) (Reading the password)
4) By using System.in.read() method
5) By using java.util.Scanner class
6) By using java.lang.String class

How to read the client data by using Scanner class :

* Scanner class has provided a nextLine() static method (later reading) through which we can read the data from the client in String format because the return type of this method is String.

public static String readLine()

WAP to read the name from the client :

ReadName.java

void main() {
 //Scanner class
 Scanner sc = new Scanner(System.in);
 System.out.println("Please enter your name :");
 String name = sc.nextLine();
 System.out.println("Your Name is " + name);
}

WAP to read your age from the client :

ReadAge.java

void main() {
 //Scanner class
 Scanner sc = new Scanner(System.in);
 System.out.println("Please enter your Age :");
 String age = sc.nextLine();
 System.out.println("Your Age is " + age);
 //Converting String(age) to Integer(age)
 int age = Integer.parseInt(age);
 if(age > 18) {
 System.out.println("Go for a movie");
 } else {
 System.out.println("Try After some year");
 }
}

WAP to read the salary from the client :

ReadSalary.java

void main() {
 //Scanner class
 Scanner sc = new Scanner(System.in);
 System.out.println("Enter your Salary :");
 String sal = sc.nextLine();
 System.out.println("Your Salary is " + sal);
 //Converting String into double type
 double salary = Double.parseDouble(sal);
 if(salary >= 50000) {
 System.out.println("Your bonus amount is 5000");
 } else {
 System.out.println("Your bonus amount is 3000");
 }
}

WAP to read gender from the client :

ReadGender.java

void main() {
 //Approach 1
 Scanner sc = new Scanner(System.in);
 System.out.println("Enter your Gender(Male/Female) :");
 String gender = sc.nextLine();
 char gen = gender.charAt(0);
 System.out.println("Your Gender is " + gen);
 //Approach 2
 Scanner sc = new Scanner(System.in);
 System.out.println("Enter your Gender(Male/Female) :");
 char gender = sc.nextLine().charAt(0);
 System.out.println("Your Gender is " + gender);
}

Tokens in Java :

1) Literal
2) Identifier
3) Operator

Keyword

A keyword is a predefined word whose meaning is already defined by the compiler.

In Java all the keywords must be in lowercase only.

A keyword we can't use as a name of the variable, name of the class or name of the method.

true, false and null look like keywords but actually they are literals.

As of now, we have 67+ keywords in Java.

Identifiers :

A name in Java program by default considered as identifiers.

Assigned to variable, method, classes to uniquely identify them.

We can't use keyword as an identifier.

Ex-
class Tan
{
 int col;
 void switchOn()
{
 }
}

Here Tan(Name of the class), col (Name of the field) and switchOn(Name of the Method) are identifiers.

Rules for defining an identifier :

1) Can consist of uppercase(A-Z), lowercase(a-z), digits(0-9), \$ sign, and underscore (_)
2) Begins with letter, \$, and _
3) It is case sensitive
4) Cannot be a keyword
5) No limitation of length

Variable :

* It is a name given for the memory location.
* It is used to hold some meaningful value.

int x = 10;
int y = 20;
x = x + y;

* It can change its value during the execution of the program.

VARIABLE

VARY + ABLE

CHANGE + ABLE

Drawback of an ordinary variable :

We have 2 drawbacks :

a) It can hold only one value at a time in random memory location.

Example :

int x = 12, 90; //Invalid
In order to avoid this we introduced array concept in Java.
It can hold multiple values in a sequence memory allocation (CACHE)

b) A variable which stores its value in RAM is a volatile memory so, once the program execution is over variable value will be deleted from the RAM so we cannot use variable value back in the future.
In order to avoid this we introduced "File Handling" concept.

https://classroom.google.com/u/3/c/ODIzMzk3NDk0NTAw

1/1