

Variable

Date: 13th Feb 2024

Variables are nothing but piece of memory use to store information.

One variable can store 1 information at a time.

Variables also used in information reusability.

To utilise variables in java programming language we need to follow below steps:

1. Variable declaration (Allocating/Reserving memory)
2. Variable Initialization(Assigning or Inserting value)
3. Variable Usage

```
//dataType
```

```
// String --> multiple characters --> shruti, Pratik, IT, computer, abc@1234, A+  
// int    --> numeric + non-decimal --> 10, 20, 10000, 5, -1, -11  
// float  --> numeric + decimal    --> 2.5, 20000.5, 55.6, 61.2  
// char   --> single character     --> A, B, a, x
```

```

package Variable;
public class demo2
{
    public static void main(String[] args)
    {
        //step1: variable declaration
        String studentname;           //dataType variableName
        String studentdept;
        int studentRollNum;
        float studentPer;
        char studentGrade;

        //step2: variable initialization
        studentname = "mayuri";        //variableName="variableInfo";
        studentdept = "Computer";
        studentRollNum = 20;
        studentPer = 60.5f;
        studentGrade='A';

        //step3: variable usage
        System.out.println(studentname);
        System.out.println(studentname);    //info reuse
        System.out.println(studentdept);
        System.out.println(studentRollNum);
        System.out.println("Student Percentage: "+studentPer+"%");
        System.out.println(studentGrade);
    }
}

```

```

package Variable;
public class demo3
{
    public static void main(String[] args)
    {
        String empCompanyName;
        String empName;
        String empDesignation;
        int empID;
        float empSal;

        empCompanyName="TCS";
        empName = "Rahul";
        empDesignation = "Automation Tester";
        empID = 100;
        empSal = 50000f;

        System.out.println("Company Name: "+empCompanyName);
        System.out.println("Employee Name: "+empName);
        System.out.println("Employee Designation: "+empDesignation);
        System.out.println("Employee ID: "+empID);
        System.out.println("Employee Salary: "+empSal);
    }
}

```

