

## PART A

(PART A : TO BE REFFERED BY STUDENTS)

### Experiment No. 01

**Aim :** Write a program to input your roll no, name, age, fees paid, sex from keyboard and print them.(Use of Scanner class and BufferedReader class)

**Objective :** To make the students aware of different primitive data types and their use in real world .

**Outcome :**

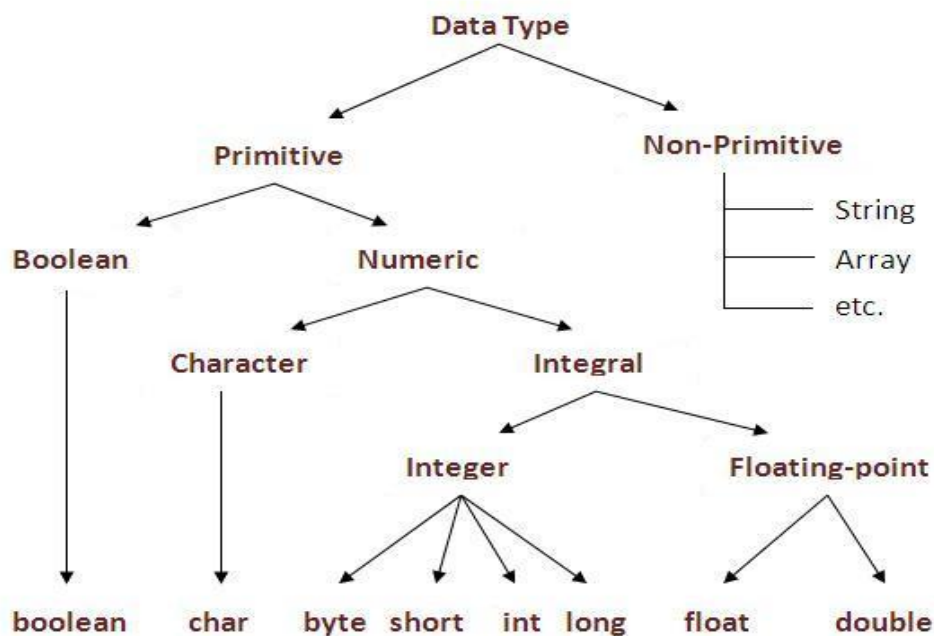
1. Students have come to know the different type of primitive data types of java. They have learned how to make use of these in real world scenario.
2. Students are exposed to reading of input data from consol.

**Theory:**

#### Data Types in Java

In java, there are two types of data types

- Primitive data types
- Non-primitive data types



<b>Data Type</b>	<b>Default Value</b>	<b>Default size</b>
<b>Boolean</b>	false	1 bit
<b>Char</b>	'\u0000'	2 byte
<b>Byte</b>	0	1 byte
<b>Short</b>	0	2 byte
<b>Int</b>	0	4 byte
<b>Long</b>	0L	8 byte
<b>Float</b>	0.0f	4 byte
<b>Double</b>	0.0d	8 byte

Java uses Unicode system rather than ASCII code system. \u0000 is the lowest range of Unicode system.

**Algorithm:**

1. Start
2. Create object of BufferedReader class.
3. int a=(Integer.parseInt)br.readLine().
4. float b=(Float.parseFloat)br.readLine();
5. double c=(Double.parseDouble) br.readLine();
6. String d= br.readLine();
7. Display a,b,c,d
8. Create object of Scanner class
9. int p=sc.nextInt()
10. float q=sc.nextFloat()
11. double r=sc.nextDouble()
12. String s=sc.nextLine()
13. Display p,q,r,s
14. Stop

## PART B

(PART B : TO BE COMPLETED BY STUDENTS)

*(Students must submit the soft copy as per following segments within two hours of the practical. The soft copy must be uploaded at the end of the practical)*

Roll. No.	Name:
Class:	Batch:
Date of Experiment:	Date of Submission:
Experiment No.:	Grade:

### **B.1 Software Code written by student:**

*(Paste your code completed during the 2 hours of practical in the lab here)*

### **B.2 Input and Output:**

### **B.3 Observations and learning:**

*(Students are expected to comment on the output obtained with clear observations and learning for each task/sub part assigned)*

### **B.4 Conclusion:**

*(Students must write the conclusion as per the attainment of individual outcome listed above and learning/observation noted in section B.3)*

### **B.5 Question of Curiosity**

*(To be answered by student based on the practical performed and learning/observations)*

1. Which of these occupy first 0 to 127 in Unicode character set used for characters in Java?
2. What are the default or implicitly assigned values for data types in java?
3. What is casting?
4. What is difference between Scanner and BufferedReader Class in Java?
5. What is the difference between Data Type and Data Structure?

### **B. 6 Similar Programs**

1. Write a program to input Emp no, name, age, salary, sex from keyboard and print them.(Use of Scanner class or BufferedReader class)
2. Write a program to input Bank Branch No, Man\_name, age, salary, address,sex from keyboard and print them.(Use of Scanner class or BufferedReader class)
3. Write a program to input your Collegename, yaer of starting, affiliated to, fees of

admission, grade from keyboard and print them.(Use of Scanner class or BufferedReader class)

4. Write a program to input bookid, Title, vol, edition, no\_of\_pages, price, typeofbook from keyboard and print them.(Use of Scanner class or BufferedReader class)
5. Write a program to input train no, train name, source, destination, no-kms, no\_of coaches, type of train, fair from keyboard and print them.