## UNIT Y(B)INPUT IN JAYA

Java language allows user to enter data for processing in the following ways:

- Using Function Argument
- Using InputStreamReader Class
- ➤ Using Scanner Class
- ➤ Using Command Line Argument
  - 1. Using Function Argument

```
public returnType functionName(dataType parameter1,
     dataType parameter2, ...) {
       // function body
        / use parameter1, parameter2, ... to process input
    2. Using InputStreamReader Class
import java.io.*;
public class MyClass {
  public static void main(String[] args) throws IOException {
    BufferedReader reader = new BufferedReader(new
InputStreamReader(System.in));
  // read integer input
   int num = Integer.parseInt(reader.readLine());
 // read string input
  String str = reader.readLine();
   // use input values
```

```
3. Using Scanner Class
import java.util.Scanner;
public class MyClass {
  public static void main(String[] args) {
   Scanner scanner = new Scanner(System.in);
  // read integer input
  System.out.print("Enter an integer: ");
   int num = scanner.nextInt();
  // read string input
  System.out.print("Enter a string: ");
 String str = scanner.nextLine();
 // use input values
  System.out.println("You entered " + num + " and " + str);
}
   4. Using Command Line Argument
public class MyClass {
  public static void main(String[] args) {
 int num = Integer.parseInt(args[0]);
// use input values
   System.out.println("You entered " + num + " and " + str);
```

## **Types of Errors**

- 1. Syntax Error Those errors occur due to the grammatical errors in the programming language. It may be missing of punctuation sign ,incorrect instructions, undefined variable etc.
- **2. Logical Error** The error which occurs in the programming logic is called logical error.
- 3. **Run Time Error**\_-It is the type of error that occurs during the runtime when the compiler does not respond properly while executing a statement.