

Lab 1

Assignment-1

- Create a class ***Student*** in ***Student.java*** then add member variables `studentName`, `collegeName` of type `String`
- Add a member variable `studentID` of type `int`.
- Make all the member variables as `private`.
- Add a main method. And print a message “Successful”.
- Compile the class
- Run the class (Follow Coding convention)

Program

```
public class Student {  
    private String studentName, collegeName;  
    private int studentID;  
  
    public static void main(String[] args) {  
        System.out.println("Successful.");  
    }  
}
```

Output

```
PS D:\Venshu\College\Engg\TPCell-Training\Sem5-Java\Anudip-Practicals\lab-assignments\lab1> javac Student.java  
PS D:\Venshu\College\Engg\TPCell-Training\Sem5-Java\Anudip-Practicals\lab-assignments\lab1> java Student  
Successful.
```

Assignment-2

- Create a new class **Employee**
- Add member variables: id and age of type int, name of type String and isPermanent of type Boolean
- Now assign values 35.5 to age; See the error message.
- How can you avoid this error? Correct the error by casting.
- Make all the members protected
- Add a main method to it. Print message “Successfully started”.
- Compile the class.

Program

```
public class Employee {  
    protected int id, age = (int) 35.5;  
    protected String name;  
    protected boolean isPermanent;  
  
    public static void main(String[] args) {  
        System.out.println("Successful");  
    }  
}
```

Output with error

```
PS D:\Venshu\College\Engg\TPCell-Training\Sem5-Java\Anudip-Practicals\lab-assignments\lab1> javac Employee.java  
Employee.java:2: error: incompatible types: possible lossy conversion from double to int  
    protected int id, age = 35.5;  
                        ^  
1 error
```

Output without error

```
PS D:\Venshu\College\Engg\TPCell-Training\Sem5-Java\Anudip-Practicals\lab-assignments\lab1> javac Employee.java  
PS D:\Venshu\College\Engg\TPCell-Training\Sem5-Java\Anudip-Practicals\lab-assignments\lab1> java Employee  
Successful
```

Assignment-3

- Create a class **Person**
- Add member variables name as String, age and salary as int
- Initialize the member variable along with declaration.
- Now put the previous Person class in a package **com.anudip.learning**
- Add a main method. Add a print message “Test Successful”.
- Run the class after compilation.
- Modify the classpaths to see the error messages on the console.

Program

```
public class Person {  
    private String name = "Venshu";  
    private int age = 20, salary = 1500000;  
  
    public static void main(String[] args) {  
        System.out.println("Test Successful.");  
    }  
}
```

Output

Before changing classpaths

```
PS D:\Venshu\College\Engg\TPCell-Training\Sem5-Java\Anudip-Practicals\lab-assignments\lab1\com.anudip.learning> javac Person.java  
PS D:\Venshu\College\Engg\TPCell-Training\Sem5-Java\Anudip-Practicals\lab-assignments\lab1\com.anudip.learning> java Person  
Test Successful.
```

After changing classpaths

```
PS D:\Venshu\College\Engg\TPCell-Training\Sem5-Java\Anudip-Practicals\lab-assignments\lab1> java Person  
Error: Could not find or load main class Person  
Caused by: java.lang.ClassNotFoundException: Person
```