## **Assignment**

Shadowing problem can be resolved by using this keyword

Example:1

```
String name;
int id;
String head;
int employeeCount;
int studentCount;
String location;
String facilities;
String programs;
String courses;
int employeeCount, int studentCount,String location,
String facilities, String programs, String courses) {
this.name = name;
this.id = id;
this.head = head;
this.employeeCount = employeeCount;
this.studentCount = studentCount;
this.location = location;
this.facilities = facilities;
```

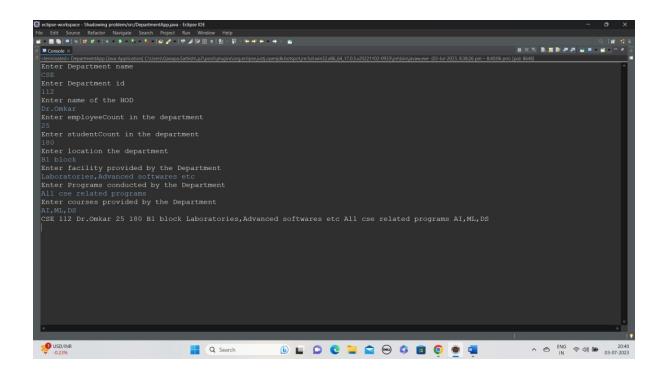
```
this.programs = programs;
this.courses = courses;
}
void services()
{
System.out.println(name+" Is offering services");
}
void exams()
{
System.out.println(name+" Conduct exams");
}
```

```
import java.util.Scanner;
public class DepartmentApp {
  public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter Department name");
    String name=sc.nextLine();
    System.out.println("Enter Department id");
    int id = sc.nextInt();
```

```
System.out.println("Enter name of the HOD");
sc.nextLine();
String head = sc.nextLine();
System.out.println("Enter employeeCount in the
department");
int employeeCount = sc.nextInt();
System.out.println("Enter studentCount in the
department");
int studentCount = sc.nextInt();
System.out.println("Enter location the department");
sc.nextLine();
String location =sc.nextLine();
System.out.println("Enter facility provided by the
Department");
String facilities=sc.nextLine();
System.out.println("Enter Programs conducted by the
Department");
String programs=sc.nextLine();
System.out.println("Enter courses provided by the
Department");
String courses=sc.nextLine();
Department d = new Department (name, id, head,
employeeCount, studentCount, location, facilities,
programs, courses);
System.out.println(d.name+" "+d.id+" "+d.head+"
"+d.employeeCount+" "+ d.studentCount+"
"+d.location+" "+d.facilities+" "+d.programs+"
"+d.courses);
```

```
}
}
```

## **OUTPUT:**



## Example 2:

```
String name;
String location;
int totalBooks;
int capacity;
String departments;
String staffMembers;
String studentName;
int studentId;
double budget;
public Library (String name, String location, int
totalBooks, int capacity, String departments, String
staffMembers, String studentName, int studentId,
double budget)
this.name=name;
this.location=location;
this.totalBooks=totalBooks;
this.capacity=capacity;
this.departments=departments;
this.staffMembers=staffMembers;
this.studentName=studentName;
this.studentId=studentId;
```

```
this.budget=budget;
}
void containsBooks()
{
System.out.println(name+" Contains Books");
}
void services()
{
System.out.println(name+" Offering services");
}
}
```

```
import java.util.Scanner;
public class LibraryApp {
  public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter name of the library");
    String name=sc.nextLine();
    System.out.println("Enter location of the library");
    String location =sc.nextLine();
    System.out.println("Enter Total count of the books in library");
    int totalBooks = sc.nextInt();
```

```
System.out.println("Enter seating capacity in
library");
int capacity = sc.nextInt();
System.out.println("Enter which department books does
library contain ");
String departments =sc.nextLine();
sc.nextLine();
System.out.println("Enter names of the staffMembers
in the library");
String staffMembers=sc.nextLine();
System.out.println("Enter name of the student");
String studentName=sc.nextLine();
System.out.println("Enter studentId");
int studentId=sc.nextInt();
System.out.println("Enter budget of thelibrary");
double budget = sc.nextDouble();
Library 1 = new Library(name, location, totalBooks,
capacity, departments, staffMembers, studentName,
studentId, budget);
System.out.println(l.name+" "+1.location+"
"+1.totalBooks+" "+1.capacity+" "+ 1.departments+"
"+1.staffMembers+" "+1.studentName+" "+1.studentId+"
"+1.budget);
```

## **OUTPUT:**

