Java Lab File

Lab 3:-

Program 7: Write and implement java program to create class and object initialization by the 3 methods i.e. using class reference variable, using methods, using constructors.
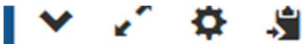
Code:-

```java
class Person {
    private String name;
    private int age;
    // Constructor method to initialize name and age
    public Person(String name, int age) {
        this.name = name;
        this.age = age;
    }
    // Method to set name
    public void setName(String name) {
        this.name = name;
    }
    // Method to set age
    public void setAge(int age) {
        this.age = age;
    }
    // Method to display information
    public void displayInfo() {
        System.out.println("Name: " + name);
        System.out.println("Age: " + age);
    }
}

public class Main {
    public static void main(String[] args) {
        // Using class reference variable
        Person person1 = new Person("Alice", 30);
        person1.displayInfo();

        // Using methods
        Person person2 = new Person("", 0); // Create object with
default values
        person2.setName("Bob");
        person2.setAge(25);
        person2.displayInfo();
```

```
        // Using constructor
        Person person3 = new Person("Charlie", 35);
        person3.displayInfo();
    }
}
```

Output

Name: Alice
Age: 30
Name: Bob
Age: 25
Name: Charlie
Age: 35