

**Job No:-** 01

**Job Name:-** Java programs using class, object, method and constructor.

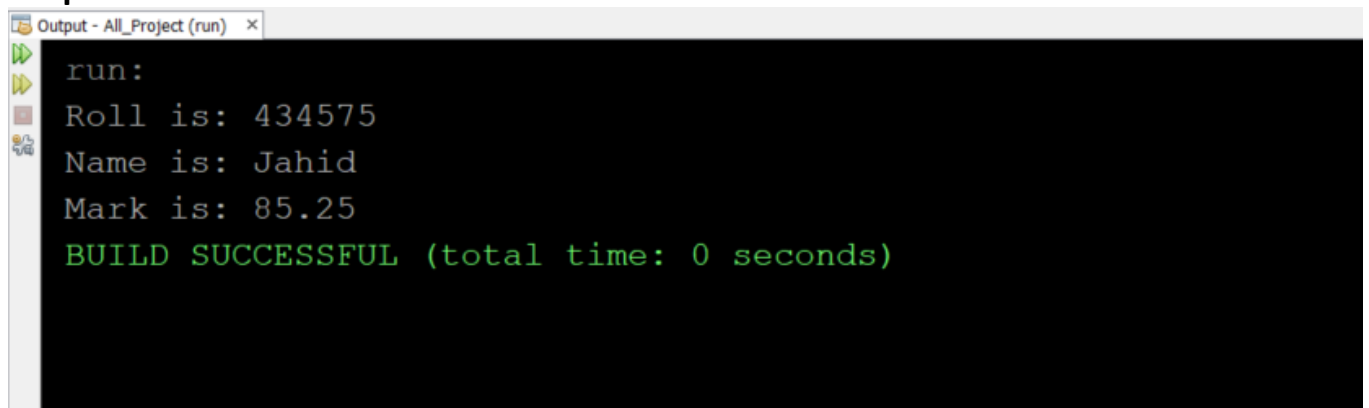
**Objectives:-** Java program-এ ক্লাস, অবজেক্ট, মেথড এবং কনস্ট্রাক্টর এর বাস্তব ব্যবহার প্রয়োগ করা।

**Theory:-** NetBeans Open করে নিচের প্রোগ্রামগুলো লিখে execute করতে হবে এবং আউটপুট দেখাতে হবে।

**প্রোগ্রাম-১:- Class ও object ব্যবহার করে প্রোগ্রামঃ**

```
package all_project.Collage;
public class Student {
    private int Roll;
    private String Name;
    private float Mark;
    private void GetData(){
        Roll = 434575;
        Name = "Jahid";
        Mark = 85.25f;
    }
    void Display(){
        GetData();
        System.out.println("Roll is: "+Roll);
        System.out.println("Name is: "+Name);
        System.out.println("Mark is: "+Mark);
    }
}
public static void main(String[] args) {
    Student s = new Student(); //Object declare
    s.Display();
}
}
```

**Output:-**

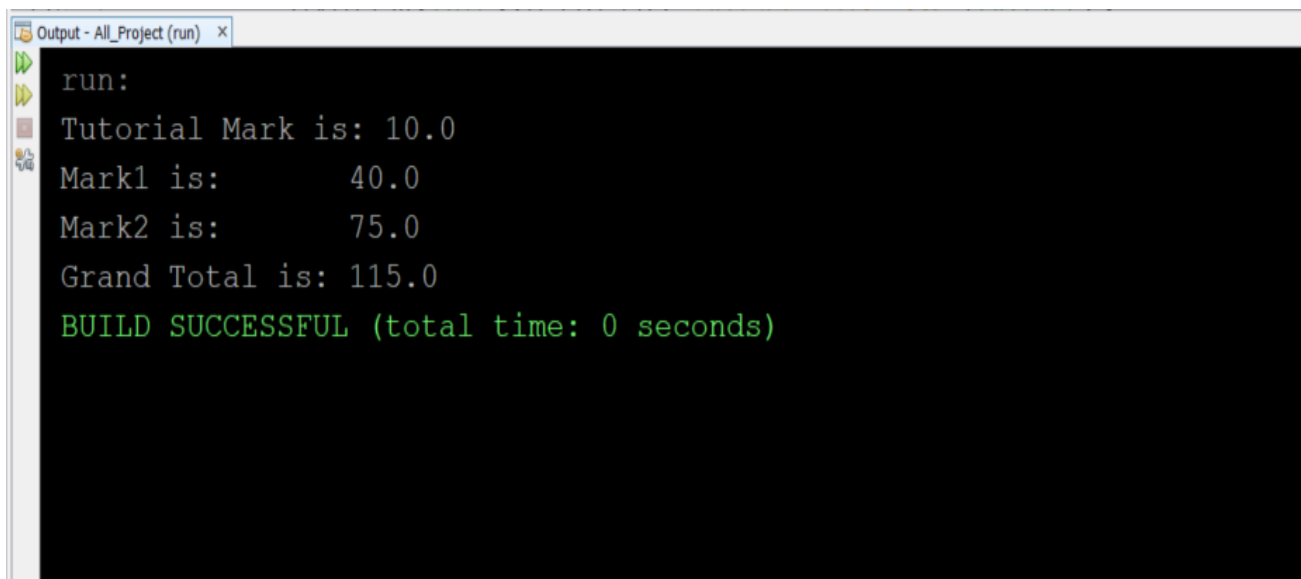


```
Output - All_Project (run) x
run:
Roll is: 434575
Name is: Jahid
Mark is: 85.25
BUILD SUCCESSFUL (total time: 0 seconds)
```

## প্রোগ্রাম-২:- মেথড ব্যবহার করে Java program:

```
package all_project.Collage;
public class Student {
    float Mark1, Mark2, Tutorial;
    float Total, GTotal;
    float GetMark(float M1, float M2){
        Mark1 = M1;
        Mark2 = M2;
        Total = Mark1 + Mark2;
        return(Total);
    }
    void Display(){
        Tutorial = 10;
        GTotal = Total + GetMark(40,75);
        System.out.println("Tutorial Mark is: "+Tutorial);
        System.out.println("Mark1 is: \t"+Mark1);
        System.out.println("Mark2 is: \t"+Mark2);
        System.out.println("Grand Total is: "+GTotal);
    }
    public static void main(String[] args) {
        Student s = new Student();
        s.Display();
    }
}
```

## Output:-

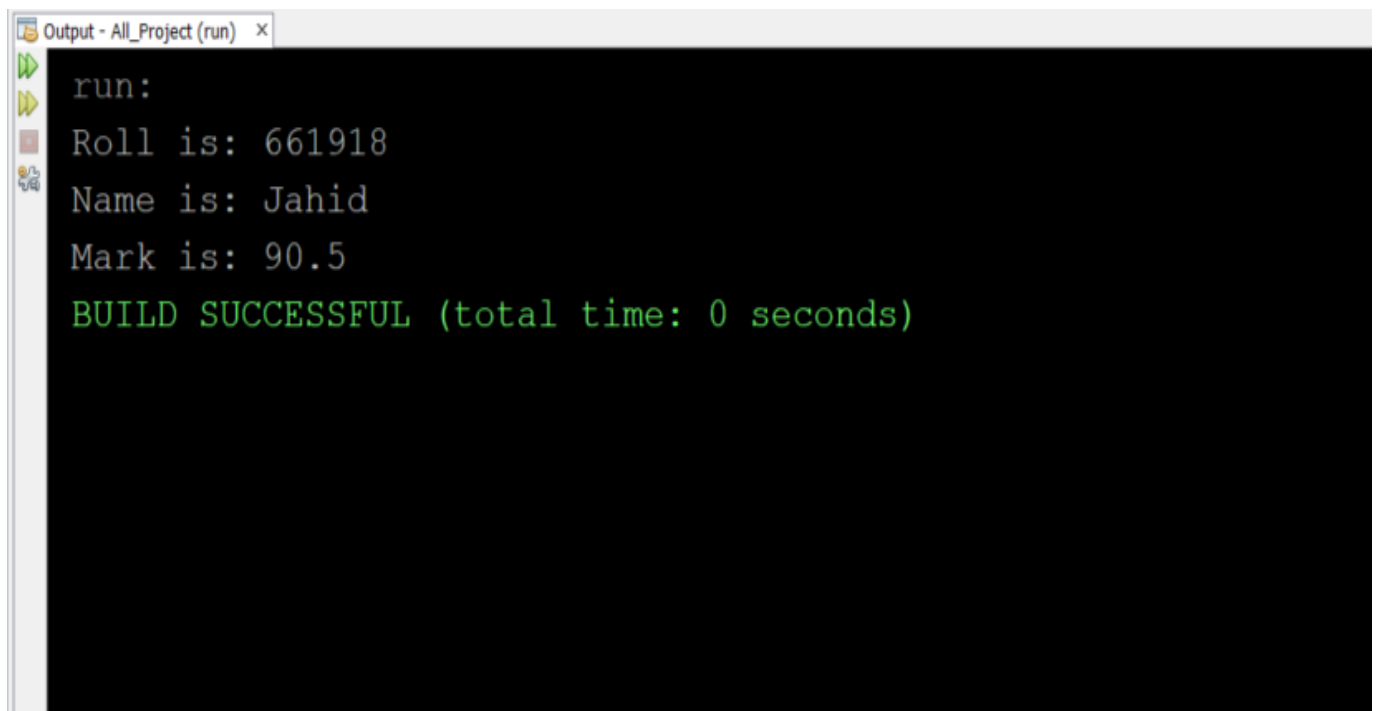
The image shows a screenshot of a Java IDE's output window. The window title is "Output - All\_Project (run)". The output text is as follows:

```
run:
Tutorial Mark is: 10.0
Mark1 is:         40.0
Mark2 is:         75.0
Grand Total is: 115.0
BUILD SUCCESSFUL (total time: 0 seconds)
```

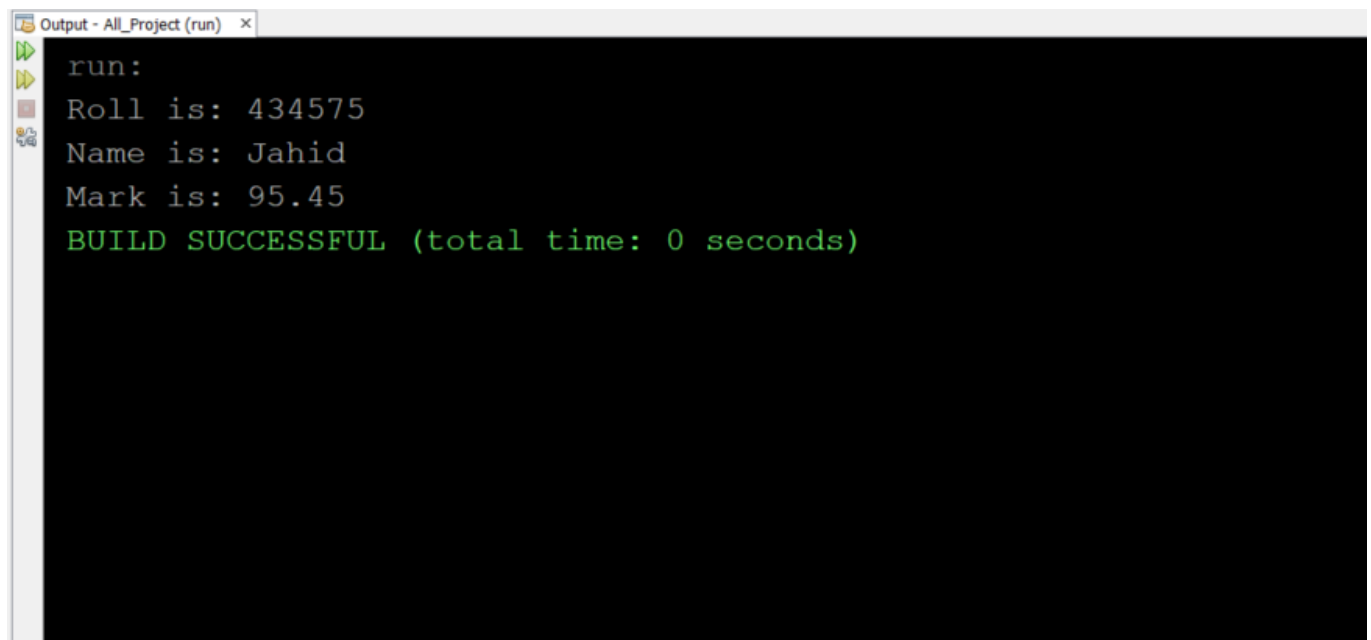
### প্রোগ্রাম-৩:- Constructor ব্যবহার করে Java program:

```
package all_project.Collage;
public class Student {
    int Roll;
    String Name;
    float Mark;
    public Student(){
        Roll = 661918;
        Name = "Jahid";
        Mark = 90.50f;
    }
    void Display(){
        System.out.println("Roll is: "+Roll);
        System.out.println("Name is: "+Name);
        System.out.println("Mark is: "+Mark);
    }
    public static void main(String[] args) {
        Student s = new Student(); //Object declare
        s.Display();
    }
}
```

### Output:-

A screenshot of a Java IDE's output window. The window title is "Output - All\_Project (run)". On the left side, there are three icons: a green play button, a yellow play button, and a red square. The output text is as follows:

```
run:
Roll is: 661918
Name is: Jahid
Mark is: 90.5
BUILD SUCCESSFUL (total time: 0 seconds)
```



The image shows a screenshot of an IDE's output window. The window has a title bar that reads "Output - All\_Project (run) x". On the left side of the window, there is a vertical toolbar with four icons: a green play button, a yellow play button, a red stop button, and a magnifying glass icon. The main area of the window is black and contains the following text in a monospaced font:

```
run:
Roll is: 434575
Name is: Jahid
Mark is: 95.45
BUILD SUCCESSFUL (total time: 0 seconds)
```