



LAB #02

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Task 1

```
class Student {
    String
    firstname,lastname,major;      float
    gpa ,cgpa;      int age ;
    public static void
main(String[]args){      Student obj=new
Student();      obj.firstname="Asad";
obj.lastname="Ali";
obj.major="Computer Science";
obj.gpa=3.4f;      obj.cgpa=3.06f;
obj.age=18;
    System.out.println("firstname"+" "+obj.firstname);
    System.out.println("lastname" +" "+obj.lastname);
    System.out.println("major "   +" "+obj.major);
    System.out.println("Gpa"      +" "+obj.gpa);
    System.out.println("cgpa"     +" "+obj.cgpa);
    System.out.println("Age is"   +" "+obj.age);
}
}
```

Out put

```
PS D:\java programs> java Student
firstname Asad
lastname Ali
major Computer Science
Gpa 3.4
cgpa 3.06
Age is 18
```

```

class Student {
    String firstname,lastnam,major;
float gpa ,cgpa;      int age ;
public static void main(String[]args){
Student obj=new Student();
obj.firstname="Asad";
obj.lastnam="Ali";
obj.major="Computer Science";
obj.gpa=3.4f;      obj.cgpa=3.06f;
obj.age=18;

    System.out.println("firstname"+" "+obj.firstname);
    System.out.println("lastname" + " "+obj.lastnam);
    System.out.println("major " + " "+obj.major);
    System.out.println("Gpa" + " "+obj.gpa);
    System.out.println("cgpa" + " "+obj.cgpa);
    System.out.println("Age is" + " "+obj.age);
    System.out.println("Student 2 data");
Student obj1=new Student();
obj1.firstname="Maqsood";      obj1.lastnam
="Ahmed";      obj1.major="software";
obj1.gpa= 4.0f;      obj1.cgpa=3.56f;
obj1.age=20;

    System.out.println("firstname"+" "+obj1.firstname);
    System.out.println("lastname" + " "+obj1.lastnam);
    System.out.println("major " + " "+obj1.major);
    System.out.println("Gpa" + " "+obj1.gpa);
    System.out.println("cgpa" + " "+obj1.cgpa);
    System.out.println("Age is" + " "+obj1.age);
}
}

```

Task 3

```

PS D:\java programs> java Student
firstname Asad
lastname Ali
major Computer Science
Gpa 3.4
cgpa 3.06
Age is 18
Student 2 data
firstname Maqsood
lastname Ahmed
major software
Gpa 4.0
cgpa 3.56
Age is 20

```

```

class Book{
    String title ,author
,language;    int page ;
Book(){      title ="java";
author="james Gosle";
language="English";
page=890;
    }
    void printData(){
        System.out.println("tilte is      :"+title);
        System.out.println("athor is      :"+author);
        System.out.println("language is   :"+language);
        System.out.println("page is      :"+page);
    }
    public static void main(String[]args){
Book obj=new Book();
obj.printData();

    }
}

```

Output

```

PS D:\java programs> java Book
tilte is      :java
athor is      :james Gosle
language is   :English
page is      :890

```

Task 4

```
class Triangle {  
float a,b,c,h;  
Triangle () {  
a=6;          b=4;  
c=5;          h=6;  
}  
  
    public static void main(String[] args) {  
        Triangle obj=new Triangle();  
        System.out.println("paramter is :"+(obj.a+obj.b+obj.c));  
        System.out.println("Area is      :"+(obj.b*obj.h)/2);  
    }  
}
```

output

```
PS D:\java programs> javac Triangle.java  
PS D:\java programs> java Triangle  
paramter is :15.0  
Area is      :12.0  
PS D:\java programs> █
```

Task 5

```

class Triangle {
float a,b,c,h;
    Triangle (float y,float x,float z,float
t){      a=y;      b=x;      c=z;
h=t;    }
    public static void main(String[]args){
Triangle obj=new Triangle(3,4,5,6);
    System.out.println("paramter is :"+(obj.a+obj.b+obj.c));
    System.out.println("Area is      :"+(obj.b*obj.h)/2);
    }
}

```

Output

```

PS D:\java programs> javac Triangle.java
PS D:\java programs> java Triangle
paramter is :12.0
Area is      :12.0
PS D:\java programs> 

```

```

import java.util.*;
class Area{
float length,breadth,area;
Area(float a,float b ){
length=a; breadth=b;      }
float returnArea(){
return length*breadth;
    }
    public static void main(String []args){
Scanner input =new Scanner(System.in);
System.out.println("Enter the breadth");
int a,b;
    a=input.nextInt();
    System.out.print("Enter the length");
b=input.nextInt();      Area  obj=new
Area(a,b);              float
area=obj.returnArea();
    System.out.print("Area of rectangle is =" +area);
    }
}

```

Output

```

PS D:\java programs> java Area
Enter the breadth
6
Enter the length
4
Area of rectangle is =24.0

```

Task 7

```

class Employee{
    String name ,adress;
int year,salary;
    Employee(String name ,int year , int salary ,String
address){        this.name=name;        this.year=year;
this.salary=salary;        this.adress=address;

    }        void
printData(){

    System.out.print(name+"\t\t"+year+"\t\t"+salary+"\t\t" +adress);
    }
    public static void main(String args[]){
        Employee obj=new Employee("Mujeeb" ,2020, 3800, "65443wallstret");
        Employee obj2=new Employee("ihسان", 2019, 70000,"78 wall street");
        Employee obj3=new Employee("Ahmed",2023,78900,"890 wall street");
System.out.println("Name\t\t"+"yearofjoining\t"+"salary\t\t"+"Adress" );
obj.printData();        System.out.print("\n");        obj2.printData();
System.out.print("\n");        obj3.printData();
    }
}

```

Output

```

PS D:\java programs> javac Employee.java
PS D:\java programs> java Employee
Name          yearofjoining  salary        Adress
Mujeeb        2020          3800          65443wallstret
ihسان        2019          70000         78 wall street
Ahmed         2023          78900         890 wall street

```


