



Java Programming - Home

Java Programming - IDE

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ENGINEERING

Java Programming

PUSHPARAJ DURGA
192211195

RunSave


```
1 public class R192211195{
2 static class Student{
3     String name;
4     int id;
5     char grade[];
6     int avg=0;
7     Student(String name,int id,char grade[]){
8         int sum=0;
9         int count=0;
10        this.name=name;
11        this.id=id;
12        this.grade=grade;
13        for(char c:grade){
14            count++;
15            if(c=='A')
16                sum+=9;
17            else if(c=='B')
18                sum+=8;
19            else if(c=='C')
20                sum+=7;
21        }
22        avg=Math.round(((float)sum/count));
23    }
24    void display(){
25        System.out.print("\nName:"+name);
26        System.out.print("\nid:"+id);
27        System.out.print("\nAverage grade="+avg);
28    }
29 }
```

Your INPUT go's here! Give only values. do not give like a=10

Name:durga
id:192211195
Average grade=9


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+1.04%

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```
1 public class R192211195{
2     static class Car {
3         String make;
4         String model;
5         int year;
6         Car(String make, String model, int year) {
7             this.make = make;
8             this.model = model;
9             this.year = year;
10        }
11        void display() {
12            System.out.print("\nMake: " + make);
13            System.out.print("\nModel: " + model);
14            System.out.print("\nYear: " + year);
15        }
16    }
17    public static void main(String[] args) {
18        Car car1 = new Car("Toyota", "Corolla", 2022);
19        car1.display();
20    }
21 }
```

Your INPUT go's here! Give only values. do not give like a=10

Make: Toyota
Model: Corolla
Year: 2022

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Run

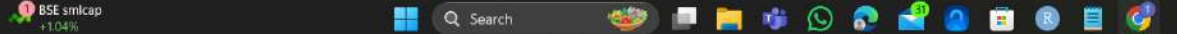
Save


Changes applied. Saved


```
1 public class R192211195 {
2     static class BankAccount {
3         int accountNumber;
4         double balance;
5         BankAccount(int accountNumber, double initialBalance) {
6             this.accountNumber = accountNumber;
7             this.balance = initialBalance;
8         }
9         void deposit(double amount) {
10             balance += amount;
11         }
12         void withdraw(double amount) {
13             if (amount <= balance) {
14                 balance -= amount;
15             } else {
16                 System.out.print("\nInsufficient funds");
17             }
18         }
19         void display() {
20             System.out.print("\nAccount Number: " + accountNumber);
21             System.out.print("\nBalance: " + balance);
22         }
23     }
24     public static void main(String[] args) {
25         BankAccount account1 = new BankAccount(123456, 500.00);
26         account1.deposit(150.00);
27         account1.withdraw(200.00);
28         account1.display();
29     }
}
```

Your INPUT go's here! Give only values. do not give like a=10

Account Number: 123456
Balance: 450.0

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```
1 public class R192211195 {
2     static class Rectangle {
3         double length;
4         double width;
5         Rectangle(double length, double width) {
6             this.length = length;
7             this.width = width;
8         }
9         double calculateArea() {
10            return length * width;
11        }
12        void display() {
13            System.out.print("\nLength: " + length);
14            System.out.print("\nWidth: " + width);
15            System.out.print("\nArea: " + calculateArea());
16        }
17    }
18    public static void main(String[] args) {
19        Rectangle rect = new Rectangle(5.0, 3.0);
20        rect.display();
21    }
22 }
```

Your INPUT go's here! Give only values. do not give like a=10


Length: 5.0
Width: 3.0
Area: 15.0

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Java Programming

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192211195

LibraryShapes-1Animal-1

RunSave

```
1 public class R192211195 {
2     static class Person {
3         String name;
4         int age;
5         Person(String name, int age) {
6             this.name = name;
7             this.age = age;
8         }
9         void display() {
10            System.out.print("\nName: " + name);
11            System.out.print("\nAge: " + age);
12        }
13    }
14    public static void main(String[] args) {
15        Person person1 = new Person("Durga", 21);
16        person1.display();
17    }
18 }
```

Your INPUT go's here! Give only values. do not give like a=10

Name: Durga
Age: 21

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LibraryShapes-1Animal-1

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```
1 public class R192211195 {
2     static class Calculator {
3         int add(int a, int b) {
4             return a+b;
5         }
6
7         int subtract(int a, int b) {
8             return a-b;
9         }
10        int multiply(int a, int b) {
11            return a*b;
12        }
13        double divide(int a, int b) {
14            if (b!=0) {
15                return (double) a/b;
16            } else {
17                System.out.print("\nCannot divide by zero");
18                return 0;
19            }
20        }
21    }
22    static class Sc extends Calculator {
23        @Override
24        int multiply(int a, int b) {
25            return (a*a)+(b*b);
26        }
27    }
28 }
```

Your INPUT go's here! Give only values. do not give like a=10

Add: 8
Subtract: 2
Multiply: 15
Divide: 1.6666666666666667
Scientific Multiply: 34

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Java Programming

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EmployeeBank

RunSave

```
1 public class R192211195 {
2     static class Calculator {
3         int sum(int... numbers) {
4             int total = 0;
5             for (int number : numbers) {
6                 total += number;
7             }
8             return total;
9         }
10        double sum(double... numbers) {
11            double total = 0;
12            for (double number : numbers) {
13                total += number;
14            }
15            return total;
16        }
17    }
18    public static void main(String[] args) {
19        Calculator input = new Calculator();
20        System.out.print("Sum of integers: " + input.sum(1, 2, 3, 4, 5));
21        System.out.print("\nSum of doubles: " + input.sum(1.1, 2.2, 3.3, 4.4, 5.5));
22    }
23 }
```

Your INPUT go's here! Give only values. do not give like a=10

Sum of integers: 0
Sum of doubles: 0.0

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```
1 public class R192211195 {
2     abstract static class Animal {
3         abstract void eat();
4         abstract void sleep();
5     }
6     static class Dog extends Animal {
7         @Override
8         void eat() {
9             System.out.print("\nDog is eating");
10        }
11        @Override
12        void sleep() {
13            System.out.print("\nDog is sleeping");
14        }
15    }
16    static class Cat extends Animal {
17        @Override
18        void eat() {
19            System.out.print("\nCat is eating");
20        }
21        @Override
22        void sleep() {
23            System.out.print("\nCat is sleeping");
24        }
25    }
26    public static void main(String[] args) {
27        Animal myDog = new Dog();
28        myDog.eat();
29        myDog.sleep();
30    }
31 }
```

Your INPUT go's here! Give only values. do not give like a=10

Dog is eating
Dog is sleeping
Cat is eating
Cat is sleeping

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
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```
1 public class R192211195 {
2     interface Drawable {
3         void draw();
4     }
5     static class Circle implements Drawable {
6         @Override
7         public void draw() {
8             System.out.print("\nDrawing a Circle");
9         }
10    }
11    static class Square implements Drawable {
12        @Override
13        public void draw() {
14            System.out.print("\nDrawing a Square");
15        }
16    }
17    public static void main(String[] args) {
18        Drawable circle = new Circle();
19        circle.draw();
20        Drawable square = new Square();
21        square.draw();
22    }
23 }
```

Your INPUT go's here! Give only values. do not give like a=10


Drawing a Circle
Drawing a Square

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 **PUSHPARAJ DURGA**
192211195

Run Save


```
1 public class R192211195 {
2     static class Shape {
3         double area;
4         double perimeter;
5     }
6     static class Circle extends Shape {
7         double radius;
8         Circle(double radius) {
9             this.radius = radius;
10            calculateArea();
11            calculatePerimeter();
12        }
13        void calculateArea() {
14            area = Math.PI * radius * radius;
15        }
16        void calculatePerimeter() {
17            perimeter = 2 * Math.PI * radius;
18        }
19        void display() {
20            System.out.print("\nCircle - Radius: " + radius);
21            System.out.print("\nArea: " + area);
22            System.out.print("\nPerimeter: " + perimeter);
23        }
24    }
25    static class Rectangle extends Shape {
```

Your INPUT go's here! Give only values. do not give like a=10

Circle - Radius: 5.0
Area: 78.53981633974483
Perimeter: 31.41592653589793
Rectangle - Length: 4.0
Width: 6.0
Area: 24.0
Perimeter: 20.0

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