

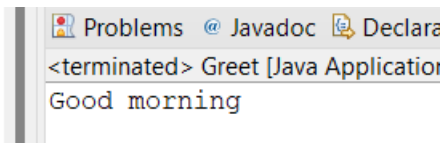
Methods

Program 1 :

//No return type no parameter method

```
package src;
public class Greet {
    public static void sayhello()
    {
        System.out.println("Good morning");
    }
    public static void main(String[] args) {
        sayhello();
    }
}
```

Output:



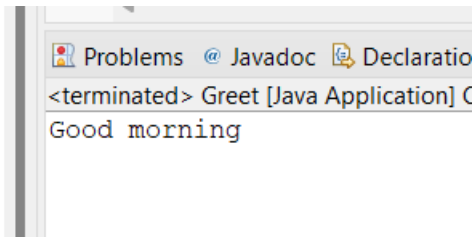
Program 2 :

//no return type with parameter method

```
package src;

public class Greet1 {
    public class SayHello {
        public static void sayHello(String user)
        {
            System.out.println("Hello"+user);
        }
        public static void main(String[] args) {
            sayHello("bunny");
            sayHello("alia");
        }
    }
}
```

Output:

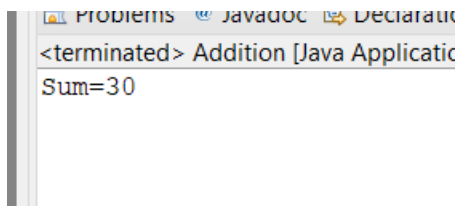


Program 3:

//return type with parameter method

```
package src;
public class Addition {
    public static int findSum(int a , int b)
    {
        int sum=a+b;
        return sum;
    }
    public static void main(String[] args)
    {
        int s=findSum(20,10);
        System.out.println("Sum="+s);
    }
}
```

Output:



Program 4:

//Return type with no parameter

```
package src;
public class Addition1 {
    public static int findSum()
    {
        int a=10;
        int b=20;
        int sum=a+b;
        return sum;
    }
    public static void main(String[] args)
    {
```

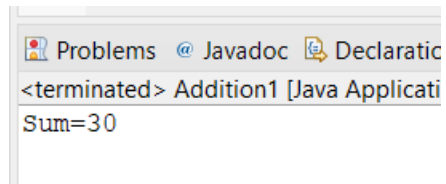
```

        int s=findSum();
        System.out.println("Sum="+s);
    }

}

```

Output:



Program 5:

```

package ArithmeticOperation;

public class ArithmeticOperation {

    public static int subtractNumbers(int num1 ,int num2)

    {

        int s= num1-num2;

        return s;

    }

    public static int multipleNumbers(int num1 ,int num2)

    {

        int m= num1*num2;

        return m;

    }

    public static int divideNumbers(int num1 ,int num2)

    {

        int d= num1/num2;

        return d;

    }

    public static int findRemainder(int num1 ,int num2)

```

```

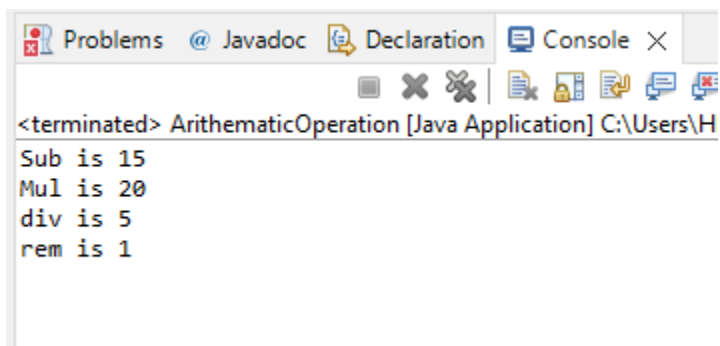
    {
        int r= num1%num2;

        return r;
    }

    public static void main(String[] args) {
        System.out.println("Sub is " +subtractNumbers(20,5));
        System.out.println("Mul is "+multipleNumbers(4,5));
        System.out.println("div is "+divideNumbers(20,4));
        System.out.println("rem is "+findRemainder(10,3));
    }
}

```

output:



The screenshot shows a Java IDE window with the 'Console' tab selected. The title bar indicates the application is 'ArithmeticOperation [Java Application]' located at 'C:\Users\H'. The console output displays the results of the arithmetic operations performed in the main method: 'Sub is 15', 'Mul is 20', 'div is 5', and 'rem is 1'.

```

<terminated> ArithmeticOperation [Java Application] C:\Users\H
Sub is 15
Mul is 20
div is 5
rem is 1

```

Program 6:

```

package cubenumber;

public class CubeNumber {
    public static int cubeNumber(int num)
    {
        int cube = num*num*num;

        return cube;
    }

    public static void main(String[] args)
    {

```

```

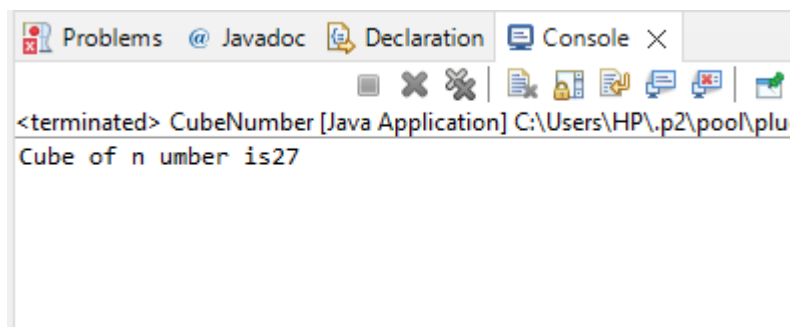
        int c = cubeNumber(3);

        System.out.println(c);
    }

}

```

Output:



Program 7:

```

package DoubleTheNumber;

public class DoubleTheNumber {

    public static int doubleTheNumber(int num) {

        int number= num*2;

        return number;

    }

    public static void main(String[] args) {

        int res=doubleTheNumber(15);

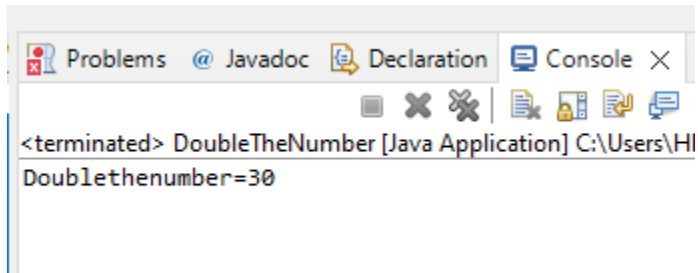
        System.out.println("Doublethenumber="+res);

    }

}

```

Output:



Program 8:

```
package galaticarithmetic;

public class GalaticArithmetic {

    public static long galaticAddition(long num1 ,long num2)

    {

        long num = num1+num2;

        return num;

    }

    public static void main(String[]args)

    {

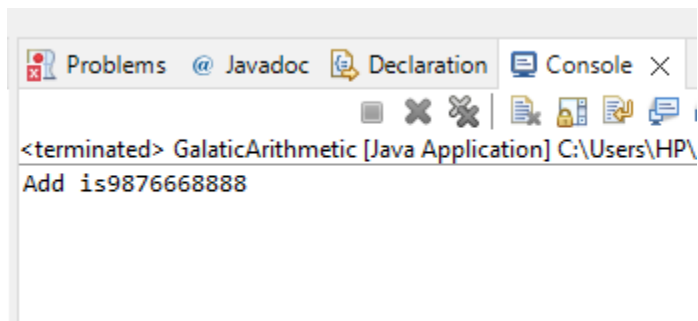
        long n = galaticAddition(125678,9876543210L);

        System.out.println("Add is"+n);

    }

}
```

Output:



Program 9

```
package JourneyCalculator;

public class JourneyCalculator {

    public double calculateDistance(double speed, double time)
    {
        double journey = speed*time;
        return journey;
    }

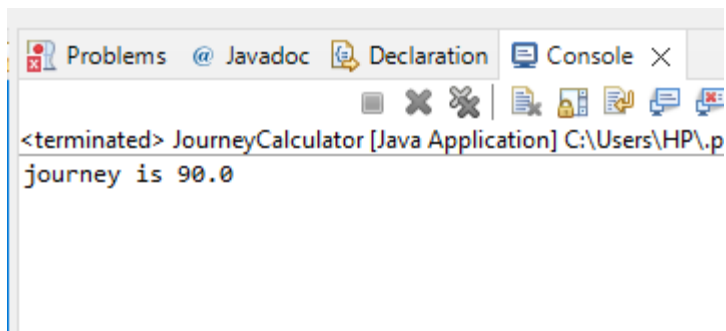
    public static void main(String[] args)
    {
        JourneyCalculator JourneyCalculator = new JourneyCalculator();

        System.out.println("journey is
"+JourneyCalculator.calculateDistance(60.0, 1.50));

    }

}
```

Output:



Program 10:

```
package secretmessagedecoder;

public class SecretMessageDecoder {

    public int decodeCharacter(char c)
    {
        int code = c;
```

```

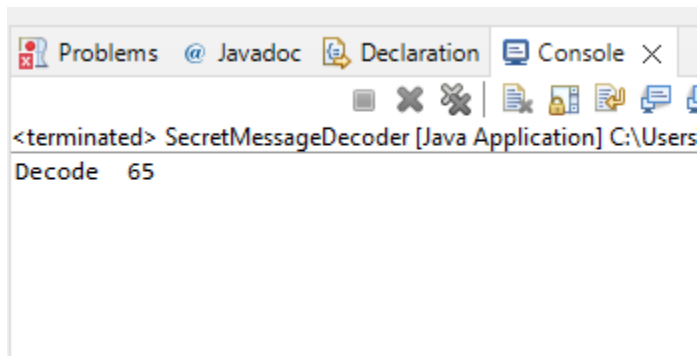
        return code;
    }

    public static void main(String[] args)
    {
        SecretMessageDecoder decoder = new SecretMessageDecoder();

        System.out.println("Decode " + decoder.decodeCharacter('A'));
    }
}

```

Output:



Program 11:

```

package semesteraveragecalculating;

public class SemesterAverageCalculating {

    public static double calculateAverage(int sem1,int sem2,int sem3,int sem4,int
sem5,int sem6,int sem7,int sem8)
    {
        int sum = (sem1+sem2+sem3+sem4+sem5+sem6+sem7+sem8);

        double Ave = sum/8;

        return Ave;
    }

    public static void main(String[] args)
    {

```



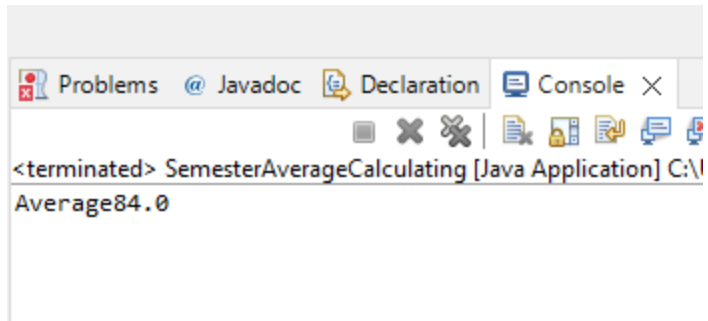
```

        double avg = calculateAverage(85, 79, 91, 76, 88, 95, 80, 85);

        System.out.println("Average"+avg);
    }
}
}

```

Output:



Program 12:

```

package squarenumber;

public class SquareNumber {

    public static int squareNumber(int num)
    {
        int sqnum = num*num;

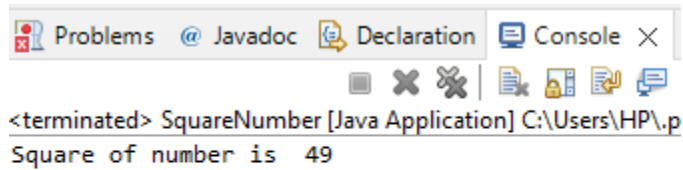
        return sqnum;
    }

    public static void main(String[]args)
    {
        int sq = squareNumber(7);

        System.out.println("Square of number is "+sq);
    }
}

```

Output:



The screenshot shows an IDE window with tabs for Problems, Javadoc, Declaration, and Console. The Console tab is active, displaying the output of a Java application named 'SquareNumber'. The output text is: <terminated> SquareNumber [Java Application] C:\Users\HP\.p Square of number is 49.

```
<terminated> SquareNumber [Java Application] C:\Users\HP\.p
Square of number is 49
```

Program 13:

```
package StringJoiner;

public class StringJoiner {

    public static String joinStrings(String str1,String str2)
    {

        String str = str1+str2;

        return str;

    }

    public static void main(String[]args)
    {

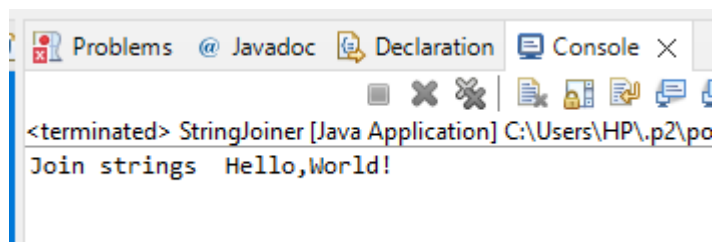
        String j = joinStrings("Hello," , "World!");

        System.out.println("Join strings " +j);

    }

}
```

Output:



The screenshot shows an IDE window with tabs for Problems, Javadoc, Declaration, and Console. The Console tab is active, displaying the output of a Java application named 'StringJoiner'. The output text is: <terminated> StringJoiner [Java Application] C:\Users\HP\.p2\po Join strings Hello,World!

```
<terminated> StringJoiner [Java Application] C:\Users\HP\.p2\po
Join strings Hello,World!
```

Program 14:

```

package temperatureconverter;

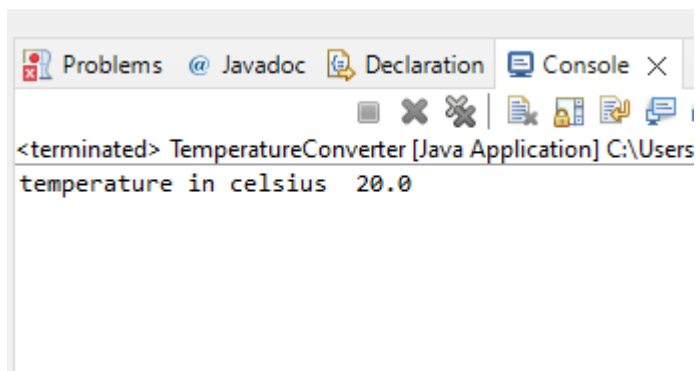
public class TemperatureConverter {
    public double converttFahrenheitToCelsiu(double fahrenheit)
    {
        double c = ((fahrenheit-32)*5/9);
        return c;
    }
    public static void main(String[] args)
    {
        TemperatureConverter temperatureConverter = new TemperatureConverter();

        System.out.println("temperature in celsius
"+temperatureConverter.converttFahrenheitToCelsiu(68.0));

    }
}

```

Output:



The screenshot shows the 'Console' tab of a Java IDE. The output text is:

<terminated> TemperatureConverter [Java Application] C:\Users

temperature in celsius 20.0

Program 15:

```

package bakery;

public class DisneyBakery {
    public static void main(String[] args)

```

```
{
    serveTea();
    serveTea(5);
    serveTea("Lemon");
    serveTea("Elachi",2);
}

public static void serveTea()
{
    System.out.println("price of normal tea=INR 10");
}

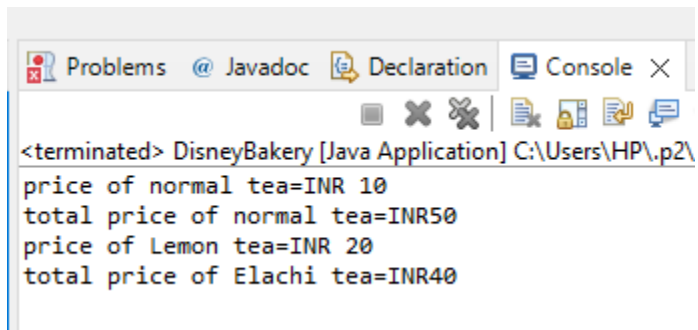
public static void serveTea(int cups)
{
    System.out.println("total price of normal tea=INR"+(10*cups));
}

public static void serveTea(String ingredient)
{
    System.out.println("price of "+ingredient+" tea=INR 20" );
}

public static void serveTea(String ingredient,int cups)
{
    System.out.println("total price of "+ingredient+" tea=INR"+(20*cups));
}

}
```

Output:

A screenshot of a Java IDE's console window. The window has a title bar with tabs for 'Problems', 'Javadoc', 'Declaration', and 'Console'. The 'Console' tab is active. The text in the console reads: '<terminated> DisneyBakery [Java Application] C:\Users\HP\.p2\price of normal tea=INR 10total price of normal tea=INR50price of Lemon tea=INR 20total price of Elachi tea=INR40'. The text is displayed in a monospaced font with some color coding: '<terminated>' is grey, 'DisneyBakery' is blue, '[Java Application]' is blue, 'C:\Users\HP\.p2\' is blue, 'price of normal tea=INR 10' is black, 'total price of normal tea=INR50' is black, 'price of Lemon tea=INR 20' is black, and 'total price of Elachi tea=INR40' is black.

```
<terminated> DisneyBakery [Java Application] C:\Users\HP\.p2\
price of normal tea=INR 10
total price of normal tea=INR50
price of Lemon tea=INR 20
total price of Elachi tea=INR40
```

Program 16:

```
package bakery;

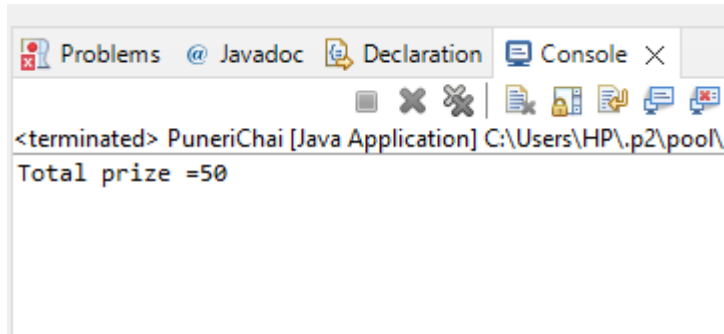
public class PuneriChai {

    public static void main(String[] args)
    {
        serveTea(5);
    }

    public static void serveTea(int cups)
    {
        System.out.println("Total prize =" + (10 * cups));
    }

}
```

Output:



Program 17:

```
package ArithmeticOperation;

public class Calculator {

    public static void main(String[] args)
    {
        Calculator.add();
    }
    public static void add()
    {
        int a=10,b=20;
        int c = a+b;
        System.out.println("Sum=" + c);
    }
}
```

Output:

