```
class Q1Hello{
  public static void main(String[] args) {
    System.out.println("Hello");
    System.out.println("Shubham Kolte");
  }
}
```

```
Hello
Shubham Kolte
```

```
class Q2Sum_of_Two_Numbers{
    public static void main(String[] args) {
        int a = 44;
        int b = 96;
        int c = a+b;
        System.out.println(a + " + " + b + " = " + c);

    }
}
```

```
44 + 96 = 140
```

```
class Q3Divide_Two_Numbers{
  public static void main(String[] args) {
    int a=30;
    int b=3;
    int c = a/b;
    System.out.println(a + " / " + b + " = " + c);
  }
}
```

```
30 / 3 = 10
```

```
class Q4Perform_Arithmetic_Operations{
  public static void main(String[] args) {
    int a = - 4 + 7 * 6;
    int b = (34 + 5) % 9;
    int c = 10 + - 2 * 5 / 8;
    int d = 5 + 11 / 3 * 2 - 8 % 3;
    System.out.println("- 4 + 7 * 6 = "+a);
    System.out.println("(34 + 5) % 9 = "+b);
    System.out.println("10 + - 2 * 5 / 8 = "+c);
    System.out.println("5 + 11 / 3 * 2 - 8 % 3 = "+d);
  }
}
```

```
- 4 + 7 * 6 = 38
(34 + 5) % 9 = 3
10 + - 2 * 5 / 8 = 9
5 + 11 / 3 * 2 - 8 % 3 = 9
```

```
class Q5Multiply_Two_Numbers{
  public static void main(String[] args) {
    int a =40;
    int b= 5;

    int c=a*b;
    System.out.println(a + " * " + b + " = " + c);
  }
}
```

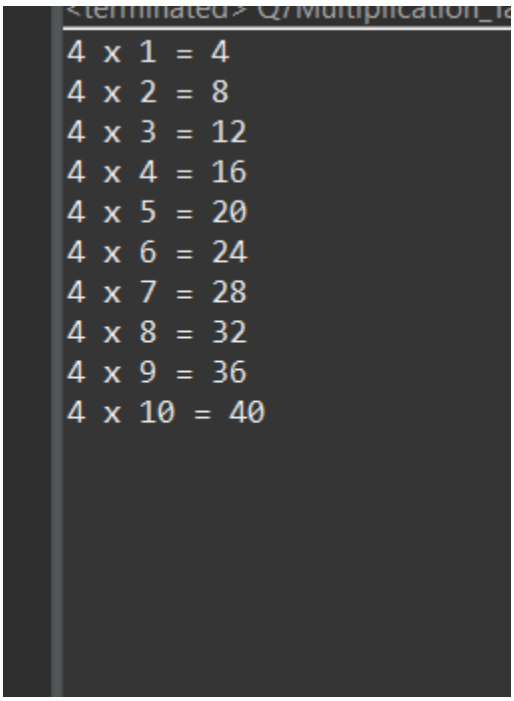
```
40 * 5 = 200
```

```
class Q6Basic_Arithmetic_Operations {
  public static void main(String[] args) {
    int a = 145;
    int b = 243;

    int c = 200 + 24;
    int d = 125 - 24;
    int e = 123 * 24;
    int f = 1251 / 24;
    int g = 1259 % 24;

    System.out.println(a + " + " + b + " = " + c);
    System.out.println(a + " - " + b + " = " + d);
    System.out.println(a + " x " + b + " = " + e);
    System.out.println(a + " / " + b + " = " + f);
    System.out.println(a + " % " + b + " = " + g);
  }
}
```

```
145 + 243 = 224
145 - 243 = 101
145 x 243 = 2952
145 / 243 = 52
145 % 243 = 11
```

```
class Q7Multiplication_Table{
  public static void main(String[] args) {
    int a = 4;
```

```
   for(int i = 1; i <= 10; i++){
     System.out.println(a + " x " + i + " = " + (a * i));
   }
  }
}
```




```
class Q8Swap_Two_Numbers{
public static void main(String[] args) {
  int a = 10;
  int b = 20;
    System.out.println("Before Swap\n" + " a = " + a + ", b = " + b);
  int temp;
  temp=a;
  a=b;
  b=temp;
  System.out.println("Before Swap\n" + " a = " + a + ", b = " + b);
}
```

```
}
```

```
Before Swap
 a = 10, b = 20
Before Swap
 a = 20, b = 10
```

```
class Q9Area_of_circle {
  public static void main(String[] args) {
    int rad = 10;
    float area = 3.14159f * rad * rad;
    System.out.println("Area of circle is :" + (float) area);
  }

}
```

```
Area of circle is :314.159
```

```
class Q10EvenOdd {
  public static void main(String[] args) {
    int a =14;
    if (a % 2 == 0) {
            System.out.println("The number " + a + " is Even.");
        } else {
            System.out.println("The number " + a + " is Odd.");
        }
}
}
```

```
The number 14 is Even.
```

```
class Q11Largest_of_Three_Numbers{
  public static void main(String[] args) {

     int firstNumber = 10;

     int secondNumber = 32;

     int thirdNumber = 45;

     int largestNumber = firstNumber;

     if (secondNumber > largestNumber) {
        largestNumber = secondNumber;
     }

     if (thirdNumber > largestNumber) {
        largestNumber = thirdNumber;
     }

     System.out.println("The largest number is " + largestNumber + ".");

  }
}
```

```
The largest number is 45.
```

```
class Q12Reverse_Number{
public static void main(String[] args) {
```

```
        int number = 12345;
        int reversed = 0;

        while(number != 0) {
            int digit = number % 10;
            reversed = reversed * 10 + digit;
            number /= 10;
        }

        System.out.println("Reversed Number: " + reversed);

}
}
```

```
Reversed Number: 54321
```

```
class Q13Average_of_Three_Num{
  public static void main(String[] args) {
        int num1 = 20;
        int num2 = 40;
        int num3 = 60;

        double average = (num1 + num2 + num3) / 3.0;

        System.out.println("The average is: " + average);

  }
```

}

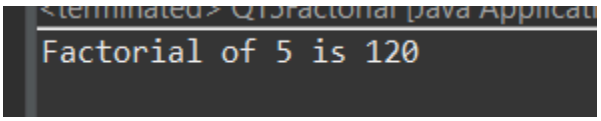
```
The average is: 40.0
```

```
class Q14Fibonacci_Series{
  public static void main(String[] args){
        int n = 5;
        int first = 0;
        int second = 1;

        System.out.println("Fibonacci Series (" + n + " terms):");

        for (int i = 1; i <= n; i++) {

            System.out.print(first + " ");

            int next = first + second;

            first = second;
            second = next;
}
}
}
```

```
Fibonacci Series (5 terms):
0 1 1 2 3
```

```
class Q15Factorial {
    public static void main(String[] args) {
```

```
        int number = 5;
        long factorial = 1;

        for (int i = 1; i <= number; i++) {
            factorial = factorial * i;
        }

        System.out.println("Factorial of " + number + " is " + factorial);
    }
}
```




```
class Q16PrimeNumber {
    public static void main(String[] args) {
        int number = 18;
        boolean isPrime = true;

        if (number <= 1) {
            isPrime = false;
        } else {
            for (int i = 2; i <= number / 2; i++) {
                if (number % i == 0) {
                    isPrime = false;
                    break;
                }
            }
        }
```

```
        if (isPrime) {
            System.out.println("The number " + number + " is Prime");
        } else {
            System.out.println("The number " + number + " is not Prime");
        }
    }
}
```

```
The number 18 is not Prime
```

```
class Q17First_N_NaturalNumbers {
    public static void main(String[] args) {
        int N = 9;

        System.out.print("First " + N + " natural numbers: ");
        for (int i = 1; i <= N; i++) {
            System.out.print(i + " ");
        }
    }
}
```

```
First 9 natural numbers: 1 2 3 4 5 6 7 8 9
```

```
class Q18TemperatureConverter {
    public static void main(String[] args) {
        double celsius = 19.0;
        double fahrenheit = (celsius * 9 / 5) + 32;
```

```
        System.out.println(celsius + "°C is equal to " + fahrenheit + "°F");
    }
}
```

```
19.0°C is equal to 66.2°F
```

```
class Q19Power {
    public static void main(String[] args) {
        int base = 3;
        int exponent = 5;
        int result = 1;

        for (int i = 1; i <= exponent; i++) {
            result *= base;
        }

        System.out.println(base + " raised to the power " + exponent + " is " + result);
    }
}
```

```
3 raised to the power 5 is 243
```

```
class Q20CountDigits {
    public static void main(String[] args) {
        int number = 12345;
        int count = 0;

        while (number != 0) {
            number /= 10;
            count++;
```

```
        }

        System.out.println("The number 123456 has " + count + " digits");
    }
}
```

```
The number 123456 has 5 digits
```