1) smart Attendance checker

```
<!java>
import java.util.scanner;

public class smart Attendance checker{ main {
    public static void main (string[] args){
        scanner sc = new scanner (system.in);

            system.out.print("Enter total classes conducted:");
            int total classes = sc.next Int();

        system.out.print("Enter classes attended:");
            int attendedclasses = sc.next Int();

    double attendance percentage = ((double) attendedclasses /
                                    total classes) * 100;
    system.out.println("Attendance percentage:" + attendance Perce-
                                    ntage + %");

        if (attendancepercentage >= 75) {
            system.out.println ("Eligible for Exam");
    } else {
            system.out.println("Not Eligible");
    }
    sc.close();
}
```

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Project

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Main.java

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

        System.out.print("Enter total classes conducted: ");
        int totalClasses = sc.nextInt();

        System.out.print("Enter classes attended: ");
        int attendedClasses = sc.nextInt();

        double attendancePercentage =
                ((double) attendedClasses / totalClasses) * 100;

        System.out.println("Attendance Percentage = "
                + attendancePercentage + "%");

        if (attendancePercentage >= 75) {
            System.out.println("Eligible for Exam");
```

Run Main

```
"C:\Program Files\Java\bin\java.exe" "-javaagent:C:\Users\User\OneDrive\Desktop\IntelliJ IDEA 2026.1.1\lib\idea_rt.jar=49674" -Dfile.encoding=UTF-8 -Dsun.
Enter total classes conducted: 32
Enter classes attended: 30
Attendance Percentage = 93.75%
Eligible for Exam

Process finished with exit code 0
```

main > src > Main 29:2 LF UTF-8 4 spaces

88°F Mostly clear 8:22 PM 6/5/2026

2) AI Age predictor

```
<I> java

import java.util.scanner;
import java.time.year;

public class AI Age predictor {
    public static void main (String[] args) {
        scanner sc = new scanner (system.in);

    system.out.print("Enter your current age:");
     int age = sc.nextInt();

    System.out.println("Age after 10 years:"+(age+10));
    system.out.println("Age after 25 years:"+(age+25));
     system.out.println("Age after 50 years:"+(age+50));

    int current year = year.now().getvalue();
    int year Turn 100 = current year+(100-age);

    System.out.println("you will turn 100 in the year:"+year -
                                                Turn100);
     sc.close();
    }
}
```

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Project

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External Libraries

Scratches and Consoles

Main.java

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

        Scanner input = new Scanner(System.in);

        System.out.print("Enter your age: ");
        int age = input.nextInt();

        System.out.println("After 10 years: " + (age + 10));
        System.out.println("After 25 years: " + (age + 25));
        System.out.println("After 50 years: " + (age + 50));

        System.out.println("Year when you turn 100: " + (2026 + (100 - age)));
    }
}
```

Run Main

```
"C:\Program Files\Java\bin\java.exe" "-javaagent:C:\Users\User\OneDrive\Desktop\IntelliJ IDEA 2026.1.1\lib\idea_rt.jar=61510" -Dfile.encoding=UTF-8 -Dsun.
Enter your age: 29
After 10 years: 39
After 25 years: 54
After 50 years: 79
Year when you turn 100: 2097
```

main > src > Main 17:2 LF UTF-8 4 spaces

78°F 8:48 PM

3.) Fitness challenge Tracker

```
<!>java

import java.util.scanner;

public class FitnessChallenge Tracker{
    public static void main(string[]args){
      scanner sc = new scanner(system.in);

      int totalsteps =0;
      int higheststeps=0;

     for (int i = 1; i<=7; i++){
     system.out.print("Enter steps for Day"+i+":");
        int steps =sc.nextInt();
            total steps += steps;
          if (steps > higheststeps){
                highest steps = steps;
          }
      }
      double averagesteps = totalsteps/7.0;

      system.out.println("\nTotalsteps:"+totalsteps);
      system.out.println("Average steps:"+averagesteps);
      system.out.println("Higheststeps:"+highest steps);

        sc.close();
    }
}
```

Project

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Main.java

```java
public class Main {
    public static void main(String[] args) {
            System.out.print("Steps on Day " + day + ": ");
            int steps = input.nextInt();

            total = total + steps;

            if (steps > max)
                max = steps;
        }

        System.out.println("Total Steps = " + total);
        System.out.println("Average Steps = " + total / 7.0);
```

Run Main

```
"C:\Program Files\Java\bin\java.exe" "-javaagent:C:\Users\User\OneDrive\Desktop\IntelliJ IDEA 2026.1.1\lib\idea_rt.jar=57947" -Dfile.encoding=UTF-8 -Dsun.
Steps on Day 1: 298
Steps on Day 2: 67
Steps on Day 3: 876
Steps on Day 4: 344
Steps on Day 5: 356
Steps on Day 6: 654
Steps on Day 7: 456
Total Steps = 3051
Average Steps = 435.85714285714283
Highest Steps = 876
```

main > src > Main 26:2 LF UTF-8 4 spaces

Light rain
Tomorrow

8:55 PM
6/5/2026

4.) Fibonacci series

```
<!>.java

import java.util.scanner;

public class Fibonacci series {
    public static void main (string [ ] args) {
    scanner sc = new scanner (system.in) ;

        system.out.print("Enter value of n:");
        int n = sc.next int().
                ;

        int first = 0, second = 1;

        system.out.print("Fibonacci series:");

        for (int i = 1; i<=n; i++) {
            system.out.print(first + " ");

            int next = first + second;
            first = second;
            second = next;
        }
        sc.close();
    }
}
```

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Project

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External Libraries

Scratches and Consoles

Main.java

```java
import java.util.Scanner;

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

        Scanner input = new Scanner(System.in);

        System.out.print("How many terms? ");
        int n = input.nextInt();

        int first = 0;
        int second = 1;
```

Run Main

```
"C:\Program Files\Java\bin\java.exe" "-javaagent:C:\Users\User\OneDrive\Desktop\IntelliJ IDEA 2026.1.1\lib\idea_rt.jar=54397" -Dfile.encoding=UTF-8 -Dsun.
How many terms? 3
0 1 1
Process finished with exit code 0
```

main > src > Main 23:2 LF UTF-8 4 spaces

78°F Partly cloudy 8:58 PM 6/5/2026

5.) prime Number check

```
</java

import java.util.scanner;

public class prime Number check {
    public static void main (string[ ]args) {
      scanner sc = new scanner (system.in);

        system.out.print("Enter a number:");
            int num = sc.next Int ();
            boolean is prime = true;
        if (num <= 1) {
            is prime = false;
        } else {
            for (int i = 2; i <= num / 2; i++) {
                if (num % i == 0) {
                is prime = false;
                    break;
                }
            }
        }
    if (is prime) {
        system.out.print ln (num + "is a prime number.");
    } else {
    system.out.print ln (num + "is not a prime number.");
    }
    sc.close();
  }
}
```

6.)

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Project

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External Libraries

Scratches and Consoles

Main.java

```java
public class Main {  new *
    public static void main(String[] args) {  new *
            if (num % i == 0)
                count++;
        }

        if (count == 2)
            System.out.println("Prime Number");
        else
            System.out.println("Not Prime Number");
    }
}
```

Run Main

```
"C:\Program Files\Java\bin\java.exe" "-javaagent:C:\Users\User\OneDrive\Desktop\IntelliJ IDEA 2026.1.1\lib\idea_rt.jar=56655" -Dfile.encoding=UTF-8 -Dsun.
Enter a number: 3
Prime Number

Process finished with exit code 0
```

main > src > Main 23:2 LF UTF-8 4 spaces

78°F Partly cloudy 8:59 PM 6/5/2026

6.) logical operators check

```
//Java

import java.util.scanner;

public class logicaloperatorscheck {
    public static void main(string[] args) {
    scanner sc = new scanner (system.in);

        system.out.print("Enter first number:");
            int num1 = sc.nextInt();

        system.out.print("Enter second number:");
            int num2 = sc.nextInt();

        system.out.print("Enter third number:");
            int num3 = sc.nextInt();

        if ((num1+num2)==num3){
        system.out.println("True: Third number is the
                sum of first two numbers.");
        }else {
            system.out.println("False: Third number
                is not the sum of first two numbers.");

        }
        sc.close();
    }
}
```

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Main.java

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

        System.out.print("Third Number: ");
        int c = input.nextInt();

        if ((a + b) == c)
            System.out.println("True");
        else
            System.out.println("False");
    }
}
```

Run Main

```
"C:\Program Files\Java\bin\java.exe" "-javaagent:C:\Users\User\OneDrive\Desktop\IntelliJ IDEA 2026.1.1\lib\idea_rt.jar=54512" -Dfile.encoding=UTF-8 -Dsun.
First Number: 4
Second Number: 5
Third Number: 2
False

Process finished with exit code 0
```

main > src > Main 22:2 LF UTF-8 4 spaces

78°F Partly cloudy 9:00 PM 6/5/2026

7.) Multiplication Table

```
//.java

import java.util.scanner;

public class multiplication Table{
    public static void main(string[] args){
        scanner sc=new scanner(system.in);

        system.out.print("Enter a number:");
            int num = sc.next int();

        system.out.println("multiplication Table of "+ num+":");

        for(int i= 1; i<=10; i++){
            system.out.println(num+"x"+i+"="+(num* i));
        }
    sc.close();
  }
}
```

main C:\Users\User\IdeaProjects\main

Main.java

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

        Scanner input = new Scanner(System.in);

        System.out.print("Enter a number: ");
        int num = input.nextInt();

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

Run

```
"C:\Program Files\Java\bin\java.exe" "-javaagent:C:\Users\User\OneDrive\Desktop\IntelliJ IDEA 2026.1.1\lib\idea_rt.jar=55200" -Dfile.encoding=UTF-8 -Dsun.
Enter a number: 5
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
```

8.) Right-Angled Triangle pattern.

```
<Java>
import java.util.scanner;

public class RightAngledTriangle{
    public static void main(string[]args){
        scanner sc=new scanner(system.in);

        system.out.print("Enter number of rows:");
            int rows=sc.nextInt();

        for(int i=1; i<=rows; i++){
        for(int j=1; j<=i; j++){
            system.out.print("*");
        }
        system.out.println();
    }
    sc.close();
}
}
```

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Main.java

```java
import java.util.Scanner;

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

        Scanner input = new Scanner(System.in);

        System.out.print("Rows: ");
        int rows = input.nextInt();

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

            for (int j = 1; j <= i; j++) {
                System.out.print("*");
            }
```

Run Main

```
Rows: 4
*
**
***
****

Process finished with exit code 0
```

main > src > Main 20:2 LF UTF-8 4 spaces

78°F Partly cloudy 9:01 PM 6/5/2026

9.) pyramid pattern

```
<1>java

import java.util.scanner;

public class pyramidpattern{
    public static void main(string[] args){
        scanner sc = new scanner(system.in);

            system.out.print("Enter number of rows:");
                int rows = sc.nextInt();

            for(int i = 1; i <= rows; i++){
                for(int j = 1; j <= rows - i; j++){
                    system.out.print(" ");
            }
            for(int k = 1; k <= (2*i - 1); k++){
                    system.out.print("*");
            }
            system.out.println();
        }
        sc.close();
    }
}
```

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Project

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Main.java

```java
public class Main {
    public static void main(String[] args) {
        for (int i = 1; i <= rows; i++) {

            for (int j = 1; j <= rows - i; j++)
                System.out.print(" ");

            for (int k = 1; k <= 2 * i - 1; k++)
                System.out.print("*");

            System.out.println();
        }
    }
}
```

Run Main

```
"C:\Program Files\Java\bin\java.exe" "-javaagent:C:\Users\User\OneDrive\Desktop\IntelliJ IDEA 2026.1.1\lib\idea_rt.jar=63954" -Dfile.encoding=UTF-8 -Dsun.
Rows: 2
 *
***

Process finished with exit code 0
```

main > src > Main 22:2 LF UTF-8 4 spaces

78°F Partly cloudy 9:02 PM 6/5/2026

10.) palindrome Number

</> java

```
import java.util.scanner;
public class palindromeNumber {
    public static boolean ispalindrome(int x) {
        int original = x;
        int reversed = 0;

        while (x != 0) {
            int digit = x % 10;
            reversed = reversed * 10 + digit;
            x /= 10;
        }
        return original == reversed;
    }
    public static void main(string[] args) {
        scanner sc = new scanner(system.in);

        system.out.print("Enter a number:");
        int num = sc.nextInt();

        if (ispalindrome(num)) {
            system.out.println(num + "is a palindrome.");
        } else {
            system.out.println(num + "is not a palindrome.");
        }
        sc.close();
    }
}
```

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Project

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Main.java

```java
public class Main {  new *
    public static void main(String[] args) {  new *
        while (num > 0) {
            int digit = num % 10;
            reverse = reverse * 10 + digit;
            num = num / 10;
        }

        if (original == reverse)
            System.out.println("Palindrome");
        else
            System.out.println("Not Palindrome");
    }
}
```

Run Main

```
"C:\Program Files\Java\bin\java.exe" "-javaagent:C:\Users\User\OneDrive\Desktop\IntelliJ IDEA 2026.1.1\lib\idea_rt.jar=62869" -Dfile.encoding=UTF-8 -Dsun.
Enter Number: 6
Palindrome

Process finished with exit code 0
```

main > src > Main 25:2 LF UTF-8 4 spaces

78°F Partly cloudy 9:04 PM 6/5/2026

11.) Basic calculator

```
// Java
import java.util.scanner;
public class main{
    public static void main(string [] args){
    Scanner input = new scanner(system.in);
    system.out.print("Enter first number:");
        double a = input.next Double();
    system.out.print("Enter second number:");
        double b = input.next Double();
    system.out.print("Enter operator (+,-,*,/):");
        char op = input.next().charAt(0);
        switch(op){
        case '+':
        system.out.print("Answer = "+(a+b));
        break;
        case '-':
        system.out.println("Answer = "+(a-b));
        break;
        case '*':
        system.out.println("Answer = "+(a*b));
```

```
break;

case '/':
    system.out.println("Answer =" + (a/b));
  break;
  default:
    system.out.println("Invalid operator");
  }
 }
}
```

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Project

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Main.java

```java
public class Main {
    public static void main(String[] args) {
                System.out.println("Answer = " + (a * b));
                break;

            case '/':
                System.out.println("Answer = " + (a / b));
                break;

            default:
                System.out.println("Invalid Operator");
        }
    }
}
```

Run Main

```
"C:\Program Files\Java\bin\java.exe" "-javaagent:C:\Users\User\OneDrive\Desktop\IntelliJ IDEA 2026.1.1\lib\idea_rt.jar=59162" -Dfile.encoding=UTF-8 -Dsun.
Enter First Number: 4
Enter Second Number: 2
Enter Operator (+,-,*,/): *
Answer = 8.0

Process finished with exit code 0
```

main > src > Main 39:2 LF UTF-8 4 spaces

78°F Partly cloudy 9:05 PM 6/5/2026

12.) Grade calculator (using ternary operator)

```
<k>java

import java.util.scanner;

public class Grade calculator{
    public static void main (string[] args){
        scanner sc = new scanner (system.in);

    system.out.print("Enter marks(0-100):");
        double marks = sc.nextDouble();

    string grade =
        (marks >= 90) ?"A+" :
        (marks >= 80) ? "A" :
        (marks >= 70) ? "B+" :
        (marks >= 60) ? "B" :
        (marks >= 50) ? "C+" :
        (marks >= 40) ? "C" :
        (marks >= 35) ? "D" : "F";

        system.out.println("Grade :"+grade);

        sc.close();
    }
}
```

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Project

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Main.java

```java
import java.util.Scanner;

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

        Scanner input = new Scanner(System.in);

        System.out.print("Enter Marks: ");
        int marks = input.nextInt();

        String grade =
                (marks >= 90) ? "A+" :
                        (marks >= 80) ? "A" :
                        (marks >= 70) ? "B+" :
                        (marks >= 60) ? "B" :
```

Run Main

```
"C:\Program Files\Java\bin\java.exe" "-javaagent:C:\Users\User\OneDrive\Desktop\IntelliJ IDEA 2026.1.1\lib\idea_rt.jar=59174" -Dfile.encoding=UTF-8 -Dsun.
Enter Marks: 68
Grade = B

Process finished with exit code 0
```

main > src > Main 23:1 LF UTF-8 4 spaces

78°F Partly cloudy 9:06 PM 6/5/2026