1. Write a program to demonstrate all primitive datatypes in Java.

**package** lab3;

**public** **class** Primitiveex {

**public** **static** **void** main(String[] args) {

**byte** temperature = -40;

System.***out***.println("byte temperature: " + temperature);

**short** altitude = 12000;

System.***out***.println("short altitude: " + altitude);

**int** population = 7000000;

System.***out***.println("int population: " + population);

**long** distance = 9876543210L;

System.***out***.println("long distance: " + distance);

**float** price = 19.99f;

System.***out***.println("float price: " + price);

**double** pi = 3.141592653589793;

System.***out***.println("double pi: " + pi);

}

}

1. Write a program to input student marks of multiple subject..print total of marks , result depending on percentage.

**package** lab3;

**import** java.util.Scanner;

**public** **class** Studmarks {

**public** **static** **void** main(String[] args) {

Scanner scanner = **new** Scanner(System.***in***);

System.***out***.print("Enter marks for Subject 1: ");

**int** subject1 = scanner.nextInt();

System.***out***.print("Enter marks for Subject 2: ");

**int** subject2 = scanner.nextInt();

System.***out***.print("Enter marks for Subject 3: ");

**int** subject3 = scanner.nextInt();

System.***out***.print("Enter marks for Subject 4: ");

**int** subject4 = scanner.nextInt();

System.***out***.print("Enter marks for Subject 5: ");

**int** subject5 = scanner.nextInt();

**int** totalMarks = subject1 + subject2 + subject3 + subject4 + subject5;

**int** maxMarks = 500;

**double** percentage = (**double**) totalMarks / maxMarks \* 100;

System.***out***.println("\nTotal Marks: " + totalMarks);

System.***out***.printf("Percentage: %.2f%%\n", percentage);

**if** (percentage >= 75) {

System.***out***.println("Result: Distinction");

} **else** **if** (percentage >= 60) {

System.***out***.println("Result: First Class");

} **else** **if** (percentage >= 50) {

System.***out***.println("Result: Second Class");

} **else** **if** (percentage >= 40) {

System.***out***.println("Result: Pass");

} **else** {

System.***out***.println("Result: Fail");

}

scanner.close();

}

}