**EXPERIMENT-6**

**AIM:** Develop a MapReduce program to find the grades of students.

**Program:**

import java.util.Scanner;

public class JavaExample {

public static void main(String args[]) {

// Array to store marks for 6 subjects

int marks[] = new int[6];

int i;

float total = 0, avg;

Scanner scanner = new Scanner(System.in);

// Input marks for 6 subjects

for (i = 0; i < 6; i++) {

System.out.print("Enter Marks of Subject " + (i + 1) + ": ");

marks[i] = scanner.nextInt();

total = total + marks[i]; // Summing up marks

}

scanner.close();

// Calculating average

avg = total / 6;

// Determining grade

System.out.print("The student Grade is: ");

if (avg >= 80) {

System.out.print("A");

} else if (avg >= 60 && avg < 80) {

System.out.print("B");

} else if (avg >= 40 && avg < 60) {

System.out.print("C");

} else {

System.out.print("D");

}

}

}

**Output:**

C:\MRProgramsDemo>javac JavaExample.java

C:\MRProgramsDemo>java JavaExample

Enter Marks of Subject1:40

Enter Marks of Subject2:80

Enter Marks of Subject3:80

Enter Marks of Subject4:40

Enter Marks of Subject5:60

Enter Marks of Subject6:60

The student Grade is: B