

College of Engineering (CoE)

**Introduction to Programming (0102220)**

**Loops Assignment**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Student ID |  |  |  |  |  |  |  |  |  |
| Student Name |  | | | | | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Question # | Course Learning  Outcomes (CLO) | Total Mark | **Student Mark** |
| 1 | CLO 1, 3 | 5 |  |
| 2 | CLO 1, 3, 4 | 5 |  |
|  |  | 10 |  |

**Instructions:**

1. Read these instructions and the questions carefully.
2. Do not forget to write your name and your student id.
3. This is an individual assignment; you cannot solve it in groups or with partners.
4. Plagiarism is not tolerated.

**Question 1:**

package com.example.JavaUV;

import java.util.Scanner;

public class App {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter the number of subjects: ");

int Subjects = input.nextInt();

double TotalGrade = 0;

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

System.out.print("Enter grade for subject " + i + ": ");

TotalGrade += input.nextDouble();

}

double AverageGrade = TotalGrade / Subjects;

System.out.println("Your average grade is : " + AverageGrade);

if (AverageGrade >= 90) {

System.out.println("Excellent");

} else if (AverageGrade >= 70) {

System.out.println("Good");

} else {

System.out.println("Needs Improvement");

}

input.close(); } }

**Question 2:**

Trace the output of the program. What will be the final value of result?

final value of result = 30

