


# National University of Computer and Emerging Sciences, Lahore Campus

	Course Name:	Programming Fundamentals	Course Code:	CS1002
	Program:	Electrical Engineering	Semester:	Fall 2023
	Duration:	15 minutes	Total Marks:	10
	Exam Date:	30 November 2023	Weight:	3.33
	Section:	EE-1A -1	Page(s):	2
	Exam Type:	Quiz-3 Solution	CLO #	4

Student Name: \_\_\_\_\_ Roll No. \_\_\_\_\_ Section: \_\_\_\_\_

Instruction/Notes: 1. Do not forget to write your Name and Roll Numbers.  
2. Solve on the paper and Return.

## Question No. 1

Marks: 10

What is the output of the following C++ code?

```
int alpha[8];

for (int i = 0; i < 4; i++)
{
    alpha[i] = i * (i + 1);
    if (i % 2 == 0)
        alpha[4 + i] = alpha[i] + i;
    else if (i % 3 == 0)
        alpha[4 + i] = alpha[i] - i;
    else if (i > 0)
        alpha[4 + i] = alpha[i] - alpha[i - 1];
}

for (int i = 0; i < 8; i++)
    cout << alpha[i] << " ";
cout << endl;
```

**Solution:**

0 2 6 12 0 2 8 9