Name:_____   Roll No:_____

National University of Computer and Emerging Sciences, Lahore Campus

Programming Fundamentals

QUIZ 3(Version B)

Section: BSE-1A   **Date:** 17 October 2022

Q1: Write the Output of the following code:

```cpp
#include <iostream>
using namespace std;
int main()
{
        int num1=8, ctr = 0;
        for (int n = num1 - 1; n >= 1; n--)
        {
                cout << n << endl;
                for (int m = 2; m < n; m++)
                {
                        cout << m << endl;
                        if (n % m == 0)
                                ctr++;
                }
                if (ctr == 0)
                {
                        if (n == 1)
                        {
                                cout << "no number";
                                break;
                        }
                        cout << n << " is the number before " << num1 << endl;
                        break;
                }
                ctr = 0;
        }
}
```
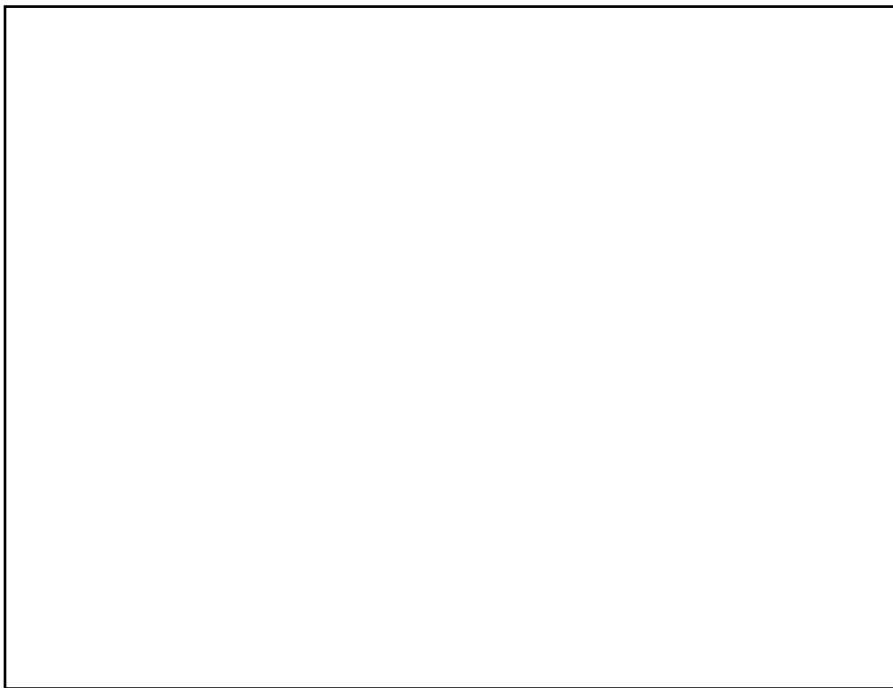
Q2: Write the Output of the following code:

```cpp
#include <iostream>
using namespace std;
int main()
{
        int amount = 0;
        cout << " ";
        for (int i = 1; i <= 2; i++)
        {
                cout << i << endl;
                for (int j = 2; j <= 3; j++)
                {
                        cout << j << endl;
                        for (int k = 1; k <= 3; k++)
                        {
                                cout << k << endl;
                                if (k != i && k != j && i != j)
                                {
                                        amount++;
                                        cout << i << j << k << " ";
                                }
                        }
                }
        }
        cout << endl << " Total number: " << amount << endl << endl;
}
```

Q3: Write the Output of the following code:

```cpp
#include <iostream>
using namespace std;
int fun(int x, int y) {
        int result;
        result = 0;
        while (y != 0)
        {
                cout << y << endl;
                result = result + x;
                y = y - 1;
        }
        return result;
}
int main() {
        int x = 2, y = 4;
        cout<< fun(x, y);
}
```