

Name: _____

Roll No: _____



**National University of Computer and Emerging Sciences,
Lahore Campus**

Programming Fundamentals

QUIZ 2 (Version D)

Section: BSE-1B

Date: 21 September 2022

Q1: Write the Output of the following code:

```
#include <iostream>
using namespace std;
int main() {
    int n = 1, m = 5;
    cout << (n == 4) << endl;
    cout << (n > 3) << endl;
    cout << (n < 4) << endl;
    cout << (n != 0) << endl;
    cout << (n == 0) << endl;
    cout << (n > 0) << endl;
    cout << (n == m && m == 4 - 1) << endl;
    cout << (n == 5 || m != 4) << endl;
    cout << !(n >= 10) << endl;
    return 0;
}
```

Q2: Write the Output of the following code:

```
#include <iostream>
using namespace std;
int main()
{
    int n = 3, i = 1, sum = 0;
    int t = 0;

    while (i <= n)
    {
        cout << t << " ";
        if (i < n)
        {
            cout << "+ ";
        }
        sum = sum + t;
        t = (t * 10) + 9;
        i++;
    }
    cout << "The sum of the series is: " << sum << endl;
}
```

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Q3: Write the Output of the following code:

```
#include <iostream>
using namespace std;
main() {
    int n, k = 5;
    n = (59 % k ? k + 1 : k - 1);
    cout << "n = " << n << " k = " << k << endl;
}
```



Q4: Write the Output of the following code:

```
#include <iostream>
using namespace std;
int main()
{
    int previous=90, current=950, consumption;
    float total, dollar;
    consumption = current - previous;
    cout << endl << "Consumption = " << consumption << " KW" << endl;
    if (consumption < 70)
    {
        total = consumption * 350;
        dollar = total / 4100;
        cout << endl << "Total Due (riel) = " << total << " riel";
        cout << endl << "Total Due (dollar) = " << dollar << " dollar" << endl;
    }
    else if (consumption < 100)
    {
        total = (consumption - 70) * 500 + (70 * 350);
        dollar = total / 4100;
        cout << endl << "Total Due (riel) = " << total << " riel";
        cout << endl << "Total Due (dollar) = " << dollar << " dollar" << endl;
    }
    else if (consumption < 450)
    {
        total = (consumption - 100) * 770 + (100 * 500) + (70 * 350);
        dollar = total / 4100;
        cout << endl << "Total Due (riel) = " << total << " riel";
        cout << endl << "Total Due (dollar) = " << dollar << " dollar" << endl;
    }
    else
    {
        total = (consumption - 450) * 840 + (450 * 770) + (100 * 500) + (70 * 350);
        dollar = total / 4100;
        cout << endl << "Total Due (riel) = " << total << " riel";
        cout << endl << "Total Due (dollar) = " << dollar << " dollar" << endl;
    }
    return 0;
}
```

