Name:_____ Roll No:_____

National University of Computer and Emerging Sciences, Lahore Campus

Programming Fundamentals

QUIZ 3(Version B)

Section: BCS-1H **Date:** 22 September 2022

Q1: Write the Output of the following code:

```
#include <iostream>
using namespace std;
int main() {
	int n = 6, m = 7;
	   a. cout << (n == 4) << endl;
	   b. cout << (n > 3) << endl;
	   c. cout << (n < 4) << endl;
	   d. cout << (n != 0) << endl;
	   e. cout << (n == 0) << endl;
	   f. cout << (n > 0) << endl;
	   g. cout << (n == m && m == 4 - 1) << endl;
	   h. cout << (n == 5 || m != 4) << endl;
	   i. cout << !(n >= 10) << endl;
	   j. cout << "1st expression is: " << (-1 + 4 * 6) << endl;
	   k. cout << " 2nd expression is: " << ((35 + 5) % 7) << endl;
	   l. cout << " 3rd expression is: " << (14 + -4 * 6 / 11) << endl;
	   m. cout << " 4th expression is : " << (2 + 15 / 6 * 1 - 7 % 2) << endl;

	int x=8, y=2, z=7;
	int result;
	   n. result = y++ + z-- + ++x;
	   o. cout << result << endl;

	return 0;
}
```

OUTPUT:

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Q2: Write the Output of the following code:

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

    while (i <= n)
    {
        cout << t << " ";
        if (i < n)
        {
            cout << "+ ";
        }
        sum = sum + t;
        t = (t * 10) + 1;
        i++;
    }
    cout << "The sum of the series is: " << sum << endl;
}
```

Q3: Write the Output of the following code:

```
#include <iostream>
using namespace std;
main() {
 int n, k = 5;
 n = (100 % 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=900, current=990, consumption;
      float total, dollar;
      consumption = current - previous;
      cout << endl << "Consumption = " << consumption << " KW" << endl;
      if (consumption < 70)
      {
            total = consumption * 350;
            dollar = total / 4100;
```

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```
            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;
}
```