Name:_____ Roll No:_____

National University of Computer and Emerging Sciences, Lahore Campus

Programming Fundamentals

QUIZ 3(Version A)

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 num1=4, num2=2, ans;
    int i=1;
    while(i <= num1 && i <= num2)
    {
        if (num1 % i == 0 && num2 % i == 0)
        {
            ans = i;
        }
       i++;
    }
    cout << " Answer is: " << ans << endl;
    return 0;
}
```

Q3: Write the Output of the following code:

```
#include <iostream>
using namespace std;
main() {
 int n, k = 5;
 n = (9 % 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=700, current=1000, 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)
```

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```
	{
		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;
}
```