National University of Computer and Emerging Sciences, Lahore Campus

Programming Fundamentals

QUIZ 1(Version D)

Section: BSE-1B   **Date:** 7th September 2022

Q1: Write the Output of the following code:

```cpp
#include <iostream>
#include <iomanip>
using namespace std;

int main()
{

    cout << "\n\n Formatting the output using type casting:\n";
    cout << "----------------------------------------------\n";
    cout << "Print floating-point number in fixed format with 1 decimal place: ";
    cout << fixed << setprecision(1);
    cout << "\nTest explicit type casting :\n";
    int i1 = 1, i2 = 2;
    cout << i1 / i2 << endl;
    cout << (double)i1 / i2 << endl;
    cout << i1 / (double)i2 << endl;
    cout << (double)(i1 / i2) << endl;
    double d1 = 2.0, d2 = 4.0;
    cout << "\nTest implicit type casting :\n";
    cout << (int)d1 / i2 << endl;
    cout << (int)(d1 / i2) << endl;
    cout << "\nint implicitly casts to double: \n";
    d1 = i1;
    cout << d1 << endl;
    cout << "double truncates to int!: \n";
    i2 = d2;
    cout << i2 << endl;
}
```
Output:

Q2: Write the Output of the following code:

```cpp
#include <iostream>
using namespace std;
int main()
{
    cout << "Print the result of some specific operation :\n";
    cout << "----------------------------------------\n";
    cout << "1st expression is: " << (1 + 4 * 6) << "\n";
    cout << " 2nd expression is: " << ((35 - 5*2) / 7) << "\n";
    cout << " 3rd expression is: " << (14 + -4 / 6 * 11) << "\n";
    cout << " 4th expression is : " << (2 + 15 % 6 * 1 - 7 / 2) << "\n\n";
}
```
Output:

```
Print the result of some specific operation :
----------------------------------------
1st expression is: 25
 2nd expression is: 3
 3rd expression is: 14
 4th expression is : 2
```

Q3: Write the Output of the following code:

```cpp
#include <iostream>
using namespace std;
int main() {
int x=62, y=4, z=19;
int result;
result = --y + z-- + ++x;
cout << result << endl;
return 0;
}
```

Output:

```
85
```