

COMPUTER LABORATORY 5

Task 1: Copy the given below. Save (as trigo.cpp), compile and run it.

```
// Trigonometric Table
#include <iostream>
#include <cmath>
using namespace std;
int main()
{
    cout.precision(3);
    cout << fixed;
    for(int deg=0; deg <= 90; deg += 5)
    {
        double x = deg * M_PI/180.0;
        cout << deg << '\t' << sin(x) << '\t' << cos(x) << endl;
    }
    return 0;
}
```

Task 2: Write a program that, when given an integer n , prints out yes if n is a prime; otherwise prints out no.

Examples : 7 -> yes

72 -> no

Output should look exactly this:

>Please enter an integer:

>2

>yes

Task 3: Write a program that, when given an integer n , prints out the n th Schillaci number (sn). (Schillaci numbers are defined as $s_1=3$, $s_2=4$, and for $i>2$, $s_i=s_{i-1}+s_{i-2}$. The first 6 Schillaci numbers are 3, 4, 7, 11, 18, 29.)

Examples : 6 -> 29

7 -> 47

Output should look exactly this:

>Please enter an integer:

>8

>76