Lab Manual 6

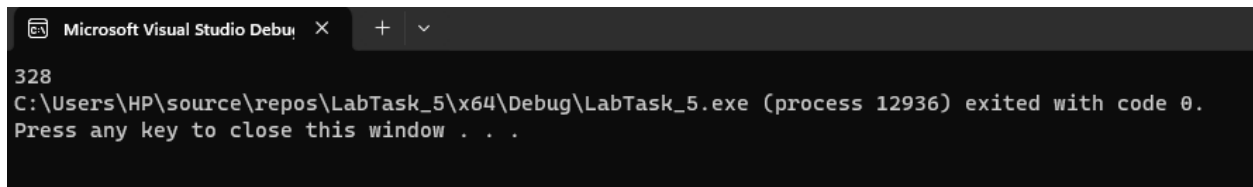**Submitted by: Ali Rehman Qureshi**

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Home Task

Task 1:

Write a program using break or continue statement that only adds prime numbers from 1 to 50 and display the sum on screen.

```cpp
#include <iostream>
using namespace std;
int main()
{
    int res = 0;
    bool isPrime = true;
    for (int i = 1;i <= 50;i++)
    {
        isPrime = true;
        if (i == 1)
        {
            continue;
        }
        for (int j = 2; j < i;j++)
        {
            if (i % j == 0)
            {
                isPrime = false;
            }
        }
        if (!isPrime)
        {
            continue;
        }
        res += i;
    }
    cout << res;
    return 0;
}
```

```
Microsoft Visual Studio Debug   X    +   v

328
C:\Users\HP\source\repos\LabTask_5\x64\Debug\LabTask_5.exe (process 12936) exited with code 0.
Press any key to close this window . . .
```

Task 2:

Write a program in C++ to create the following pattern.

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

```cpp
#include <iostream>
using namespace std;
int main()
{

    for (int i = 1; i <= 5;i++)
    {
        for (int j = 1;j <= i;j++)
        {
            cout << j<<" ";
        }
        cout << endl;
    }
    return 0;
}
```


Task 3:

Write a C++ program to print:

1

2 2

4 4 4 4

6 6 6 6 6 6

```cpp
#include <iostream>
using namespace std;
int main()
{
    for (int i = 1; i <= 6; i++)
    {
        if (i > 1 && i % 2 == 1)
```

```cpp
        {
            continue;
        }
        for (int j = 1; j <= i;j++)
        {
            cout << i;
        }
        cout << endl;
    }
    return 0;
}
```