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PROGRAM: BS(CS)

ICT_TASK #09

Q1: WRITE A PROGRAM IN C++ TO CHECK WHETHER A NUMBER IS PRIME OR NOT.

SOURCE CODE:

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

int main()
{
    int flag = 0, n;
    cout << "Enter a number: ";
    cin >> n;
    for (int j = 2; j < n; j++)
    {
        if (n % j == 0)
        {
            flag = 1;
        }
    }

    if ((flag == 0) && !(n < 2))
    {
        cout << "it is a prime number " << n;
    }
    else
    {
        cout << "It is not a prime number " << n << endl;
    }
}</pre>
```

OUTPUT:

```
D:\Maqsood's Data\C PROGRAMMING PRACTICE\C++ Ict_Projects>g++ ict_lab_final.cpp
D:\Maqsood's Data\C PROGRAMMING PRACTICE\C++ Ict_Projects>a.exe Enter a number: 1
It is not a prime number 1
D:\Maqsood's Data\C PROGRAMMING PRACTICE\C++ Ict_Projects>a.exe
Enter a number: 2
it is a prime number 2
D:\Maqsood's Data\C PROGRAMMING PRACTICE\C++ Ict_Projects>a.exe
Enter a number: 3
it is a prime number 3
D:\Maqsood's Data\C PROGRAMMING PRACTICE\C++ Ict_Projects>a.exe
Enter a number: 7
it is a prime number 7
D:\Maqsood's Data\C PROGRAMMING PRACTICE\C++ Ict_Projects>a.exe
Enter a number: 9
It is not a prime number 9
D:\Maqsood's Data\C PROGRAMMING PRACTICE\C++ Ict_Projects>a.exe
Enter a number: 15
It is not a prime number 15
D:\Maqsood's Data\C PROGRAMMING PRACTICE\C++ Ict_Projects>a.exe
Enter a number: 17
it is a prime number 17
D:\Maqsood's Data\C PROGRAMMING PRACTICE\C++ Ict_Projects>a.exe
Enter a number: 19 it is a prime number 19
D:\Magsood's Data\C PROGRAMMING PRACTICE\C++ Ict_Projects>
```

Q2. WRITE A PROGRAM IN C++ TO FIND THE FACTORIAL OF A NUMBER.

SOURCE CODE:

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

int main()
{
    int fact = 1, n;
    cout << "Enter a number: ";
    cin >> n;
    for (int j = 1; j <= n; j++)
    {
        fact = fact * j;
    }
    cout << "'s Factorial is: " << fact << endl;
}</pre>
```

OUTPUT:

```
D:\Maqsood's Data\C PROGRAMMING PRACTICE\C++ Ict_Projects>a.exe
Enter a number: 8
8's Factorial is: 40320
D:\Maqsood's Data\C PROGRAMMING PRACTICE\C++ Ict_Projects>a.exe
Enter a number: 2
2's Factorial is: 2
D:\Maqsood's Data\C PROGRAMMING PRACTICE\C++ Ict_Projects>a.exe
Enter a number: 4
4's Factorial is: 24
D:\Maqsood's Data\C PROGRAMMING PRACTICE\C++ Ict_Projects>a.exe
Enter a number: 5
5's Factorial is: 120
D:\Maqsood's Data\C PROGRAMMING PRACTICE\C++ Ict_Projects>a.exe
Enter a number: 6
6's Factorial is: 720
D:\Maqsood's Data\C PROGRAMMING PRACTICE\C++ Ict_Projects>a.exe
Enter a number: 7
7's Factorial is: 5040
D:\Magsood's Data\C PROGRAMMING PRACTICE\C++ Ict_Projects>a.exe
Enter a number: 8
8's Factorial is: 40320
```