FOP LAB MANUAL 04 LAB TASKS

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Class: ME-15 C

TASK 01:

RESULT:

1. Write a program in C++ to find the sum of first 10 natural numbers.

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

int main() {
    int sum;
    for(int n=1;n<=10;n++){
        int x;
        cout<<"ENTER THE "<<n<<" NUMBER: "<<endl;
        cin>>x;
        sum+=x;
    }
    cout<<"The sum of the number: "<<sum;
    return 0;
}</pre>
```

Q 02 Write a C++ program to Print a Table of any Number.

```
return 0;
}
RESULT:
```

```
Enter the number for the table:

5
5*1=5
5*2=10
5*3=15
5*4=20
5*5=25
5*6=30
5*7=35
5*8=40
5*9=45
5*10=50

Process exited after 1.978 seconds with return value 0
Press any key to continue . . . _
```

Q 03 Write a Program to Generate Factorial. A Certain Number Factorial of any number is the product of an integer and all the integers below it for example factorial of 4 is: 4! = 4 * 3 * 2 * 1 = 24

```
CODE:
```

```
#include<iostream>
using namespace std;
int main(){
    int num,res=1;
    cout<<"Enter the number: "<<endl;
    cin>>num;
    if(num==0){
        cout<<res<<"=1";</pre>
```

```
Enter the number:
4
4!= 24
------Process exited after 2.208 seconds with return value 0
Press any key to continue . . . _
```

Q 04 Write a C++ program to generate a Fibonacci sequence up to a certain number input by the user.

```
CODE:
#include<iostream>
using namespace std;
int main() {
    int a;
    int b;
    int c;
    int n;
```

```
cout<<"Enter the number of fibocanni numbers: ";
      cin>>n;
      cout<<"Enter the 1st number: ";
      cin>>a;
      cout<<"Enter the 2nd number: ";
      cin>>b;
      cout<<"The fibocanni sequence is: ";
      for(int i=0;i<n;i++){
            c=a+b;
            a=b;
            b=c;
            cout<<c<",";
      }
      return 0;
}
Enter the number of fibocanni numbers: 7
Enter the 1st number: 2
Enter the 2nd number: 3
The fibocanni sequence is: 5,8,13,21,34,55,89,
Process exited after 5.656 seconds with return value 0
Press any key to continue \dots
```