Lab 4 Lab Tasks

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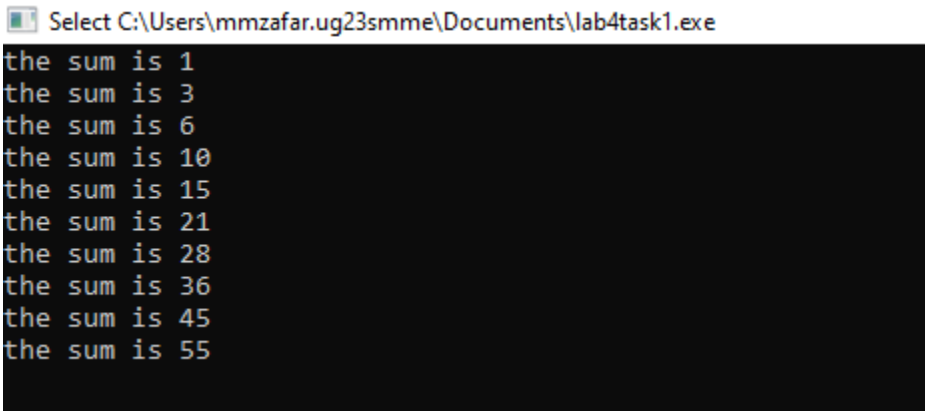
Question 1:

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

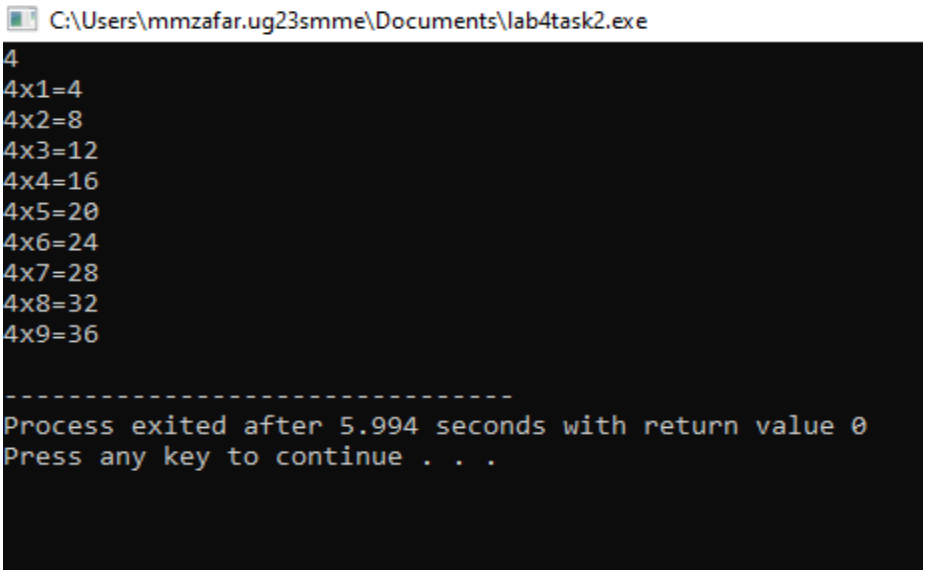
```
#include <iostream>
using namespace std;
int main()
{
	int a;
	cin>>a;
	for (int i=1;i<11;i++)
	{
		cout<<a<<"x"<<i<<"="<<a*i<<endl;
	}
}
```



Question 2:

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

```
#include <iostream>
using namespace std;
int main()
{
	int a;
	cin>>a;
	for (int i=1;i<11;i++)
	{
		cout<<a<<"x"<<i<<"="<<a*i<<endl;
	}
}
```

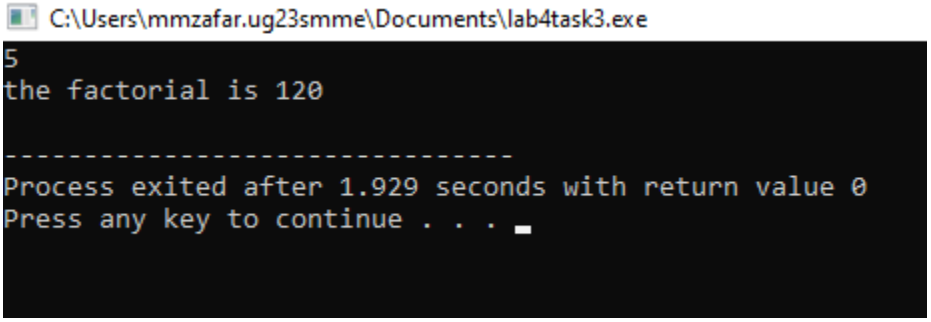


Question 3

Write a program to generate factorial.

```
#include <iostream>

using namespace std;

int main()

{

	int a=0;

	cin>>a;

	int result=1;


	for(int i=1;i<a+1;i++)

	{

		result*=i;

	}
```

```
        cout<<"the factorial is "<<result<<endl;
}
```



Question 4

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

```
#include <iostream>
using namespace std;
int main()
{
        int first_number=0;
        int second_number=1;
        int range;
        cout<<"enter the sequence limit"<<endl;
        cin>>range;
        int result;
        cout<<"the fibonacci seequence is"<<endl;
```

```
        cout<<first_number<< " "<<endl;
        cout<<second_number<< " "<<endl;
        for(int i=0;i<range;i++)
        {
                result=first_number+second_number;
                first_number=second_number;
                second_number=result;
                cout<<result<<endl;
        }

}
```

```
enter the sequence limit
6
the fibonacci seequence is
0
1
1
2
3
5
8
13

--------------------------------
Process exited after 9.526 seconds with return value 0
Press any key to continue . . .
```