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SEC A

FOP CS 114

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TASK 1:

```cpp
#include<iostream>
using namespace std;
int main()
{
    int x,res1=0;
    cout<<"enter first ten natural numbers"<<endl;
    for(int x=1;x<=10;x++){



    cin>>x;
    res1=res1+x;
}
cout<<"resultant is "<<res1<<endl;
return 0;


}
```

TASK 2:

```cpp
#include<iostream>
using namespace std;
int main()
{
        int p,q=1,product;
        cout<<"enter the number"<<endl;
        cin>>p;
        for(q=1;q<=10;q++){
                product=p*q;
                cout<<p<<"*"<<q<<"="<<product<<endl;}
        q=q+1;
        return 0;

}
```

TASK 3:

```cpp
#include<iostream>
using namespace std;
int main()
{int x,y=1;
cout<<"enter number"<<endl;
cin>>x;
if(x>=0){

for(int z=0;z<x;z++){
    y=y*(x-z);
}cout<<"factorial of number is:"<<y<<endl;
}return 0;
}
```

TASK 4:

```cpp
#include<iostream>
using namespace std;
int main(){
int num =15;
    int n1 = 0, n2 = 1;
    int x;
    cout<<"state number of elements in sequence: ";
    cin >>num;
    cout << n1 << ", " << n2 << ", ";
    for(int i = 2; i < num; i++){
        x = n1 + n2;
        n1 = n2;
        n2 = x;

        cout << x <<" , ";

}return 0;}
```