



# NUST

NATIONAL UNIVERSITY  
OF SCIENCES & TECHNOLOGY

Course Title: Fundamentals of  
Programming  
Course Code: CS-114

## Assignment

Name: Muhammad Abdullah khan

Roll no. 475336

Section: BECE '23 - C

Date: 04 April 2024

Submitted to: MS Qurrat Ul Ain

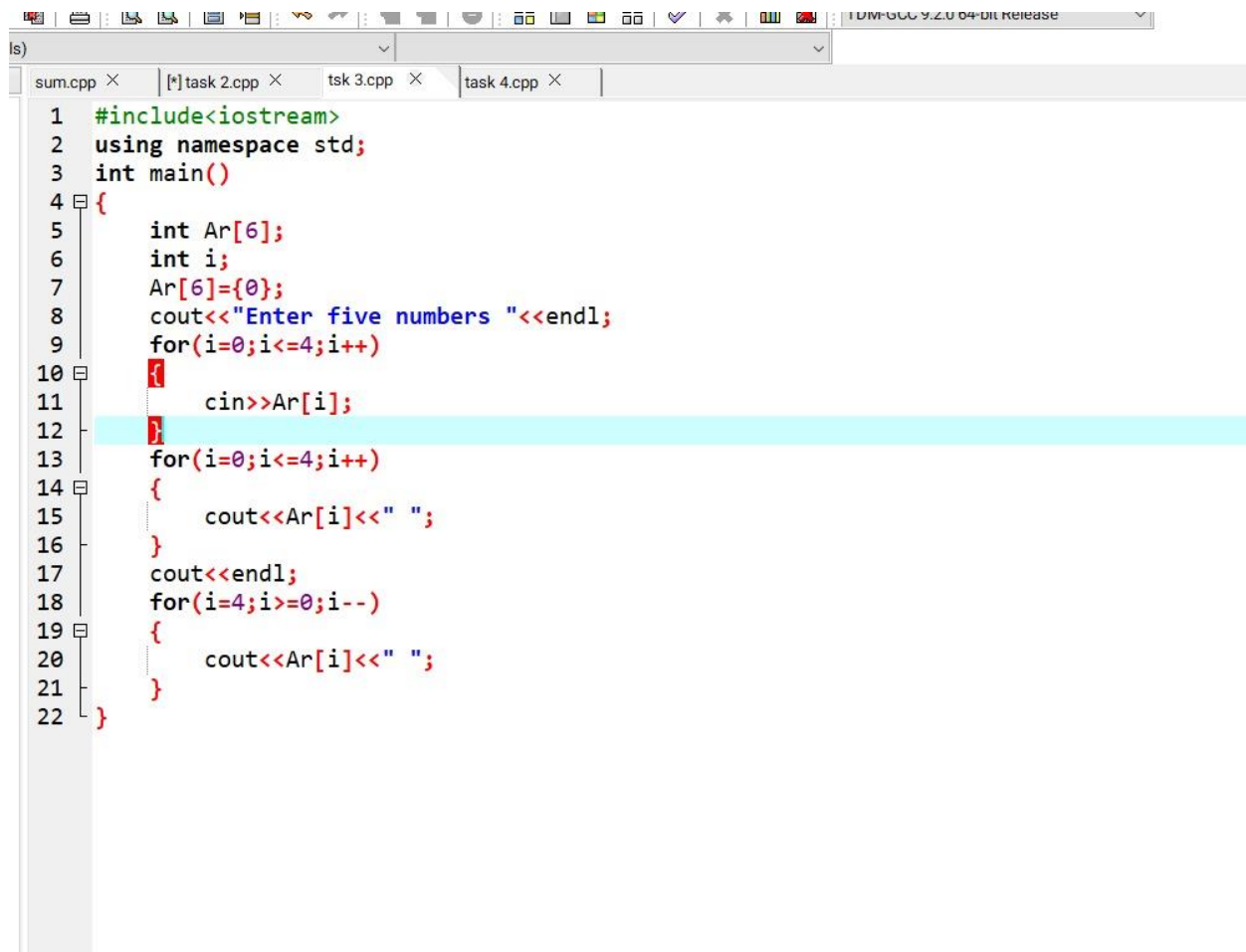
# Task 1

```
itled1.cpp  Untitled2.cpp
#include<iostream>
using namespace std;
int main()
{
    int Ar[6],i,p=1,sum=0;
    cout<<"Enter six positive integer"<<endl;
    for(i=0;i<=5;i++)
    {
        cin>>Ar[i];
        if(Ar[i]>0)
        {
            p=p*Ar[i];
            sum=sum+Ar[i];
        }
        else
        {
            cout<<"You entered a non positive number"<<endl<<"Enter the number again"<<endl;
            i=i-1;
        }
    }
    cout<<"sum = "<<sum<<endl;
    cout<<"prod = "<<p;
}
```

# Task 2

```
sum.cpp ×  [*] task 2.cpp ×  tsk 3.cpp ×  task 4.cpp ×  
1  #include<iostream>  
2  using namespace std;  
3  int main()  
4  {  
5      char Ar[10];  
6      int i;  
7      i=0;  
8      Ar[10]={'\0'};  
9      cout<<"Enter 10 character "<<endl;  
10     for(i=0;i<=9;i++)  
11     {  
12         cin>>Ar[i];  
13     }  
14     for(i=0;i<=9;i++)  
15     {  
16         cout<<Ar[i]<<" ";  
17     }  
18  
19 }
```

## Task 3



```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int Ar[6];
6     int i;
7     Ar[6]={0};
8     cout<<"Enter five numbers "<<endl;
9     for(i=0;i<=4;i++)
10    {
11        cin>>Ar[i];
12    }
13     for(i=0;i<=4;i++)
14     {
15         cout<<Ar[i]<<" ";
16     }
17     cout<<endl;
18     for(i=4;i>=0;i--)
19     {
20         cout<<Ar[i]<<" ";
21     }
22 }
```

## Task 4

```
sum.cpp ×  [*] task 2.cpp ×  tsk 3.cpp ×  task 4.cpp ×  
1  #include<iostream>  
2  using namespace std;  
3  int main()  
4  {  
5      int size;  
6      cout<<"enter size of Array"<<endl;  
7      cin>>size;  
8      int Ar1[size],Ar2[size],Ar3[size];  
9      int i;  
10     cout<<"Enter "<<size<<" numbers for first array "<<endl;  
11     for(i=0;i<=size-1;i++)  
12     {  
13         cin>>Ar1[i];  
14     }  
15     cout<<"Enter "<<size<<" numbers for second array "<<endl;  
16     for(i=0;i<=size-1;i++)  
17     {  
18         cin>>Ar2[i];  
19     }  
20     for(i=0;i<=size-1;i++)  
21     {  
22         Ar3[i]=Ar1[i]+Ar2[i];  
23         cout<<" "<<Ar3[i]<<" ";  
24     }  
25  
26 }
```

## Task 5

Untitled1.cpp    Untitled2.cpp

```
1  #include<iostream>
2  using namespace std;
3  int main()
4  {
5      int Ar[5],i,j,p=1,sum=0;
6      Ar[0]=1;
7      Ar[1]=2;
8      Ar[2]=3;
9      Ar[3]=4;
10     Ar[4]=5;
11     for(i=0;i<=4;i++)
12     {
13         p=1;
14         for(j=1;j<=Ar[i];j++)
15         {
16             p=p*j;
17         }
18         Ar[i]=p;
19         sum=sum+Ar[i];
20     }
21     cout<<"1! + 2! + 3! + 4! + 5! = sum("<<sum<<")";
22
23 }
```