

- write a program to output using while loop:- 1 2 3 4 5 6 7 8 9 10

```
#include<iostream>
#include<string>
#include <iomanip>
using namespace std;
int main()
{
    int Num = 1;
    while (Num<=10)
    {
        cout<<Num<<endl;
        ++Num;
    }

    return 0;
}
```

- write a program to input 3 integers and determine which of them is biggest

```
#include<iostream>
#include<string>
#include <iomanip>
using namespace std;
int main()
{
    int Num1 , Num2 ,Num3 ;
    cin>> Num1 >> Num2 >> Num3 ;

    if (Num1>Num2 && Num1>Num3)
    {
        cout<<Num1;
    }

    if (Num2>Num1 && Num2>Num3)
    {
        cout<<Num2;
    }

    if (Num3>Num2 && Num3>Num1)
    {
        cout<<Num3;
    }
    return 0;
}
```

- write a program to input 3 integers and determine which of them is smallest:-

```
#include<iostream>
#include<string>
#include <iomanip>
using namespace std;
int main()
{
    int Num1 , Num2 ,Num3 ;
    cin>> Num1 >> Num2 >> Num3 ;

    if (Num1<Num2 && Num1<Num3)
    {
        cout<<Num1;
    }

    if (Num2<Num1 && Num2<Num3)
    {
        cout<<Num2;
    }

    if (Num3<Num2 && Num3<Num1)
    {
        cout<<Num3;
    }
    return 0;
}
```

- write a program to enter a letter and determine the letter is small or capital letter:-

```
#include<iostream>
#include<string>
#include <iomanip>
using namespace std;
int main()
{
    char letter ;
    cout<<"Enter Letter : ";
    cin>>letter ;
    letter= static_cast<int>(letter);
    if (letter<97)
    {
        cout<<"This letter it's Capital ";
    }
    else cout<<"This letter it's small";
    return 0;
}
```

- write a program to know positive and negative:-

```
#include<iostream>
#include<string>
#include <iomanip>
using namespace std;
int main()
{
    int Num ;
    cin>>Num;
    if (Num>0)
        cout<<"Positive number";
    else
        cout<<"negative number";

    return 0;
}
```

- write a program to know odd and even numbers:-

```
#include<iostream>
#include<string>
#include <iomanip>
using namespace std;
int main()
{
    int Num ;
    cin>>Num;
    if (Num%2==0)
        cout<<"Even number";
    else
        cout<<"Odd number";

    return 0;
}
```

- write a program to calculate the SUM of positive integers and the SUM of negative integers for 6 integers:-

```
#include<iostream>
#include<string>
#include <iomanip>
using namespace std;
int main()
{
    int Num1 , Num2 , Num3 ,Num4 , Num5 ,Num6 ;
    int P=0 , N=0 ;
    cout<<"Enter 6 Numbers of Integer : ";
    cin>>Num1>>Num2>>Num3>>Num4>>Num5>>Num6 ;

    if (Num1>=0)
    {
        P=P+Num1;
    } else  N=N+Num1;

    if (Num2>=0)
    {
        P=P+Num2;
    } else  N=N+Num2;

    if (Num3>=0)
    {
        P=P+Num3;
    } else  N=N+Num3;

    if (Num4>=0)
    {
        P=P+Num4;
    } else  N=N+Num4;

    if (Num5>=0)
    {
        P=P+Num5;
    } else  N=N+Num5;
    if (Num6>=0)
    {
        P=P+Num6;
    } else  N=N+Num6;
    cout<<P<<"\n"<<N;

    return 0;
}
```

- write a program using DO/WHILE to compute factorial n!
(المضروب) .(Example $3! = 3*2*1$):-

```
#include<iostream>
#include<string>
#include <iomanip>
using namespace std;
int main()
{
    int x , Result=1;
    cout<<"Enter ur Number :";
    cin>>x;
    cout<<x<<"!= ";
    while (x>0)
    {
        cout<<x;
        if (x>1)
            cout<<"*";
        Result *=x ;
        --x;
    }
    cout<<"="<<Result;

    return 0;
}
```

- write a program to output:-

```
*
* *
* * *
* * * *

#include<iostream>
#include<string>
#include <iomanip>
using namespace std;
int main()
{
    cout<<"* "<<"\n"<<"* * "<<"\n"<<"* * * "<<"\n"<<"* * * * ";

    return 0;
}
```

- write a program to output:-

* * * *

* * *

* *

*

```
#include<iostream>
#include<string>
#include <iomanip>
using namespace std;
int main()
{
cout<<"* * * *"<<"\n"<<"* * * " <<"\n"<<"* * " <<"\n"<<"* ";

    return 0;
}
```

- write a program to output:-

*

* *

* * *

* *

*

```
#include<iostream>
#include<string>
#include <iomanip>
using namespace std;
int main()
{
cout<<"    "<<"*"<<"\t"<<"\n"<<"    " * * "<<"\n"<<"    " * * "*" <<"\n"
"<<" * * "<<"\n"<<"    *";

    return 0;
}
```

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