Finding max of 3 numbers:

```
Start
Read a, b, c;
if a>b do;
        If a>c;
                Large is a;
        Else;
                Large is C;
Else;
        If b>c;
                Large is b;
        Else;
                Large is c;

Exit;
```

Finding if number N is Prime or Not?

```
Read N
div=2
While div<N do;
        If N % div==0;
                Print 'Number is not prime'
                End
        Else;
                div=div+1

Print 'number is Prime'
Exit
```

//checking prime or not

```
int main()
{
   int N;
   cout << "enter a number";
   cin >> N;
   int div = 2;
   while (div < N)
      if (N % div == 0) {
         cout << "number is a not a prime" << endl;
         break;
      }
      else {
         div = div + 1;
      }
      cout << "number is a prime";
      exit;

}
```

Print All prime number till n:

```
Strat
Read N
num=2
While ( num<=N );
        div=2
        While div<num do;
                If Num % div==0;
                        Number is not prime
                        num=num+1
                Else;
                        div=div+1
        End while
        Cout<< num<< " is a prime nuber"<< endl;
        Num=num+1

End while
```

//---------sum of two numbers--------

```
/*
int main()
{
        int a, b;
        cout << "enter the 1st number ";
        cin >> a;
        cout << "enter the 2nd number ";
        cin >> b;

        int sum = a + b;
        cout << "sum of two numbers is "<< sum;
        return 0;
}
*/
```

//------area of a square--------

```
/*
int main() {
        int length;
        int area;
        cout << "enter the length of square ";
        cin >> length;

        area = length * length;
        cout << "area of the square of the length " << length << " is " << area;
        return 0;
}
*/
```

//--------simple interest----------

```
/*
int main() {
	int l, p, r;
	cout << "enter l, p, r ";
	cin >> l >> p >> r;

	float Interest = ((l * p * r)/100);
	cout << "simple interest is " << Interest;
	return 0;
}

*/

//-----Fahrenheit to Celsius----------
/*
int main() {
	int Fahrenheit;
	cout << "enter the temp. in fahrenheit ";
	cin >> Fahrenheit;
	int celsius = (5 / 9.0) * (Fahrenheit - 32);
	cout << "temp in celsius is " << celsius;
	return 0;

}

*/

//-------if the number is even or odd---------

int main() {
	cout << "enter the number ";
	int n;
	cin >> n;

	if (n % 2 == 0) {
		cout << " even number";
	}
	else {
		cout << "odd number";
	}
}



//-------sum of n natural numbers--------

int main() {
	int n;
	cout << "enter the number n ";
	cin >> n;
	int sum=0;
```

```
        for (int i = 1; i <= n; i++) {
                sum = sum + i;
        }
        cout << "sum of n natural number is " << sum;
        return 0;
}
```

//---------factorial of a number---------

```
int main() {
        int n;
        cout << "enter the number ";
        cin >> n;

        int factorial=1;
        for (int i = n; i >= 1; i--) {
                factorial = factorial * i;
        }
        cout << "factorial of n is "<< factorial;
}
```

Program to check if a triangle is scalene, isosceles or equilateral:

```
Include<iostream>
Using namespace std;

Int mani(){
        Cin>>sidea>>sideb>>sidec;
        If(sidea==sideb && sideb==sidec){
                Cout<<"triangle is equilateral";
        }
        Else if(sidea==sideb || sideb==sidec || sidec==sidea ){
                Cout<<"Triangle is isosceles";
        }
        Else{
                Cout<<"Triangle is scalene";
        }
 return0;
}
```

Program to check if an alphabet is a vowel or a consonant.

```
 include<iostream>
Using namespace std;

Int main(){
        Char alpha;
        Cin>>alpha;
        If(alpha==a || alpha==e ||alpha==i ||alpha==o || alpha==u){
                Cout<<"alpha is a constant";
```

```
        }
    Else
        Cout<<"alpha is a vowel";
Rerturn0;
}
```

Program to display multiplication table upto 10

```
Include<iostream>
Using namespace std;

Int main(){
    Int n;
    Cin>>n;
    For(i==1; i<=10;i++){
        Cout<<n<<"*"<<i<<"="<<n*i;
    }
Return0;
}
```

//pattern question Palindromic pattern

```
int main() {
    int n;
    cout << "enter a number ";
    cin >> n;
    int number = 1;
    for (int i=1 ; i <= n; i++) {
        for (int j = 1; j <=2*n; j++) {
            if (j <= n - i || j >= n + i)
                cout << " ";
            else
                for (int k = 0; k <= i - 1; k++)
                    if (j == n - k || j == n + k)
                        cout << k + 1<<"";


        }
        cout << endl;
    }
}
```

To check if true or not:

ISPrime: we can do it by taking boolean function

```
#iniclude<math.h>
Bool isprime(int n){
    Div=2
    While(div<sqrt(n)){
        If(n%div==0)
            Return false
```

```
            Else
                Div+=1
        }
        End while
        If( div=n-1)
            Return true

}

Int main(){
        Int a;
        Int b;
        Cin>>a>>b;
        For(int i=a;i<=b;i++){
            If(isprime(i))
                Cout<<i<<endl;
            }
            }
```