

```
int main(void)

{
    int a;
    cin >> a;

    if(a > 0) {
        cut << "a is positive" << endl;
    }

    else {
        cut << "a is not positive" << endl;
    }

    return 0;
}

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
.\InputAndOutput }

a is positive</pre>
```

## Program to compare two numbers:

```
ImputAndOutputcpp X

i    #include <iostream>
2    using namespace std;

int main()

int m
```

Note: cin ignores ENTER (In), TAB (It) and SPACE ()
while taking input. These are called whitespace characters.

Use cin.get() to read these whitespace characters.

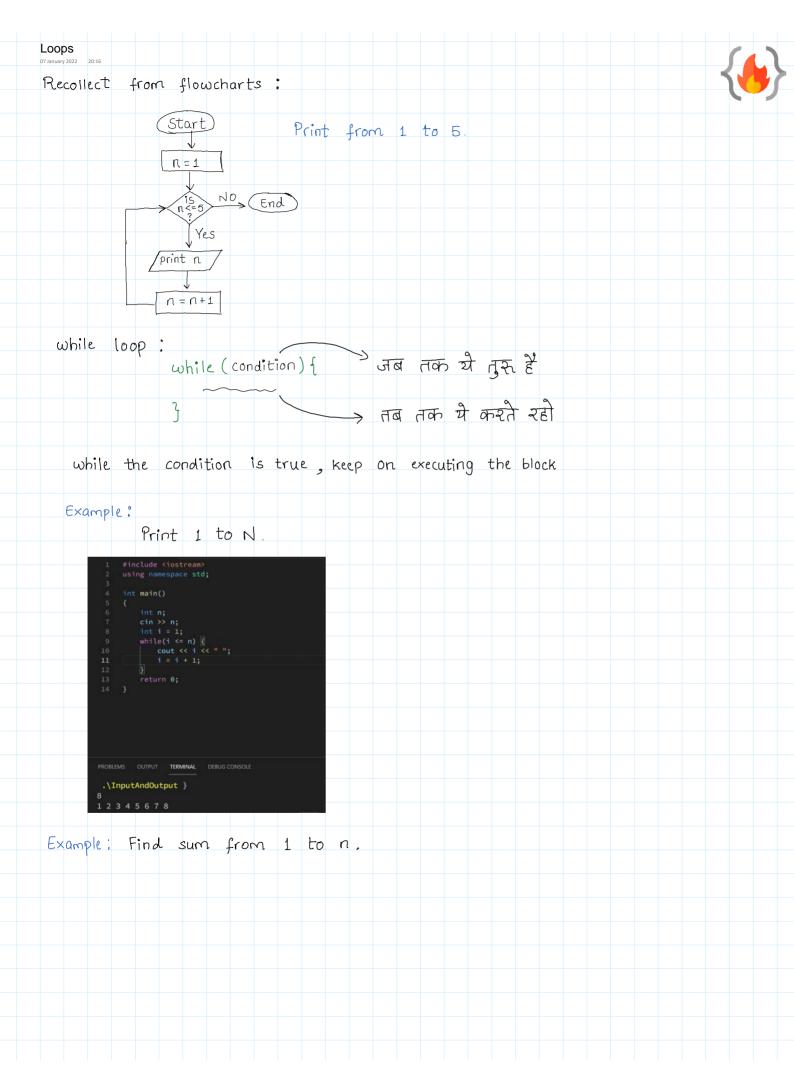
## Using nested if - else:

In this else block, we can see that reither a will be negative or O.

So we can further break down this else block.

```
int a;
cin >> a;
if(a > 0) {
    cout << "a is positive" << endl;
}</pre>
                                                                                int a;
cin >> a;
if(a > 0) {
    cout << "a is positive" << endl;
}</pre>
                                       PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
  PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
                                                                           PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
                                       .\InputAndOutput }
  .\InputAndOutput }
                                                                           .\InputAndOutput }
             Code ganda hote jaa raha hai. Ek-do baar aur
             nested if - else kar diya to coding chorni padhegi.
 Solution: else if
         if ( ~~~ ) {
                                                   int a ;
cout<<" enter the value of a "<<endl;</pre>
                                                   cout<<" A is positive endl;
          else if (~~) {
                                                   else if(a<0) {
                                                    cout<<" A is negative"<<endl;
                                                   cout<<" A is 0"<<endl;
          else {
     Note: else if and else are optional.
                  else can be used as a default case.
     Homework: Output ??
1 #include <iostream>
2 using namespace std;
     4 int main() {
     5
               int a = 9;___
     6
     7
              if(a == 9) {
                                         Answer: NINEYPOSITIVE
             cout<< "NINEY";
     8
     9
    10
             if(a > 0){
    11
            cout<<"POSITIVE";
    12
    13
               else
    14
              {
    15
    16
                    cout<<"NEGATIVE":
    17
```

```
1 #include <iostream>
2 using namespace std;
     4 int main() {
      5
      6
                 int a = 2;
                                            Answer: 3
      7
                 int b = a+1;
      8
     9
                if((a=3)==b) {
     10
                     cout<<a;
                                         → a is assigned 3
     11
                else
     12
                                             Now, a == b is true.
                {
     13
     14
                        cout<<a+1;
     15
     16 }
      1 #include <iostream>
    2 using namespace std;
      4 int main() {
      5
                int a = 24;
      7
      8
                if(a > 20){
                                            Answer: Love 24
                       cout<< "Love ";
      10
                else if(a == 24) {
      11
                 cout<<"Lovely";
      12
      13
      14
                 else
      15
                 {
                      cout<<"Babbar";
      16
      17
              cout<<a;
      18
      19 }
1 Code Homework:
                                                We can also use ASCII values
            char a;
cin >> a;
// 'A' is 65
// 'a' is 97
// '0' is 48
if(a >= 'A' && a <= 'Z') {
    cout << "This is upper case" << endl;</pre>
            else if(a >= 'a' && a <= 'z') {
    cout << "This is lower case" << endl;
```



```
int n;
cin >> n;
int sum = 0;
int i = 1;
while(i <= n) {
    sum = sum + i;
    i = i + 1;
}</pre>
           PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
            { .\InputAndOutput }
           Sum from 1 to 8 = 36
Example: Find sum of all even numbers from 1 to n.
                #include <iostream>
using namespace std;
                 int main()
           Sum from 1 to 8 = 20
Homework: Fahrenheit to Celsius.
                  C = \frac{5}{9} \left( F - 32 \right)
               {
  float fahrenheit;
   cin >> fahrenheit;
  float celsius = (5.0/9) * (fahrenheit - 32);
   cout << fahrenheit << " F = " << celsius << " C" << endl;</pre>
           PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
            { .\InputAndOutput }
```

