PROGRAMMING FUNDAMENTALS



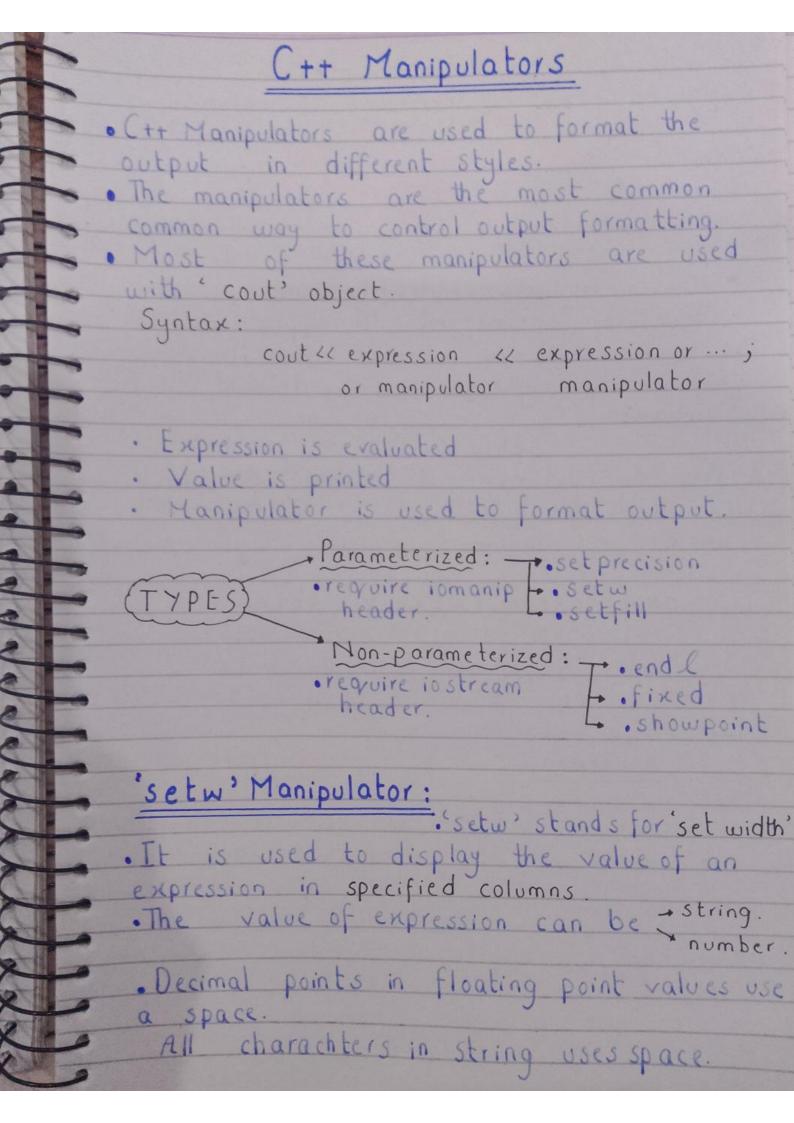
Let's explore technology together to live in the future

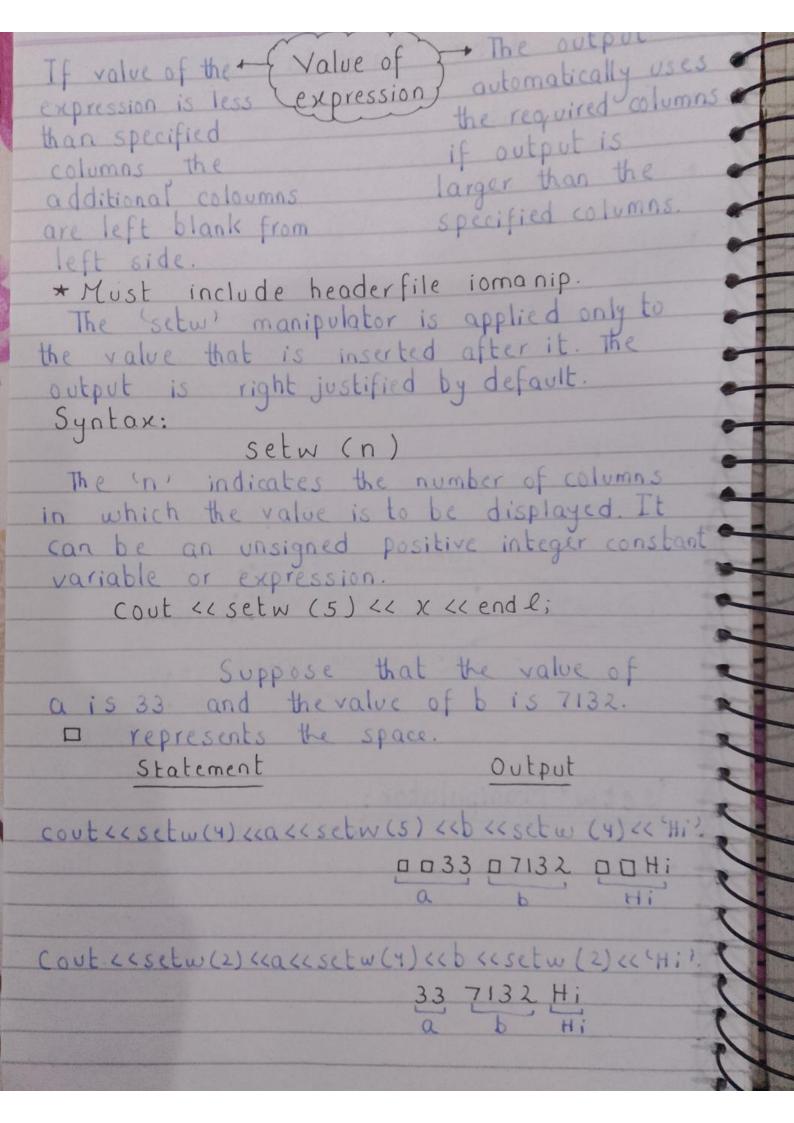


Checkout more on https://github.com/Sy-hash-



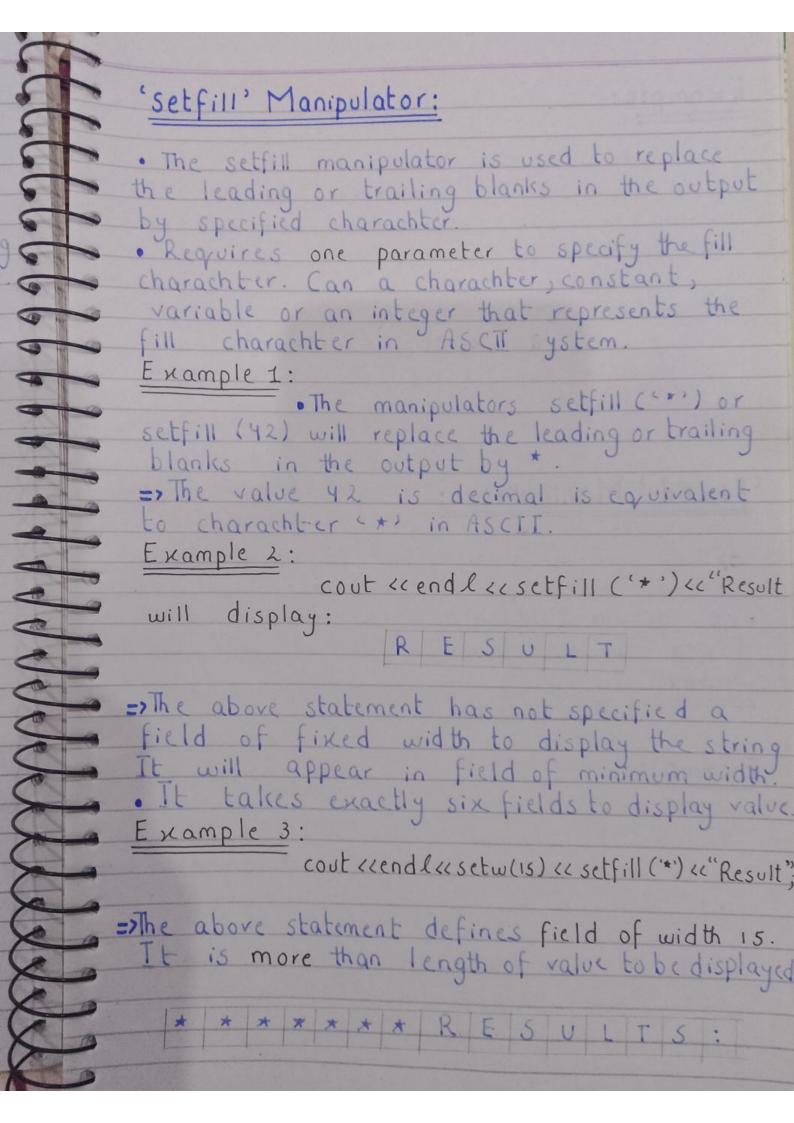
📵 Sy-hash-collab





Note: If we want to store multiple charach. in a 'char' datatype then we store them as array of charachters. => We use "square bracket []' with variable and then write multiple charachters after assignment operator in ". char str [] = "OOP using Ctt"; Example: # include Kinstream? # include < iomanip> using namespace std; int main () int n = 3928, double d = 915; char str [] = " oop using (++"; cout « " (" « setw(s) « n « « ")" « cend « ; cout « « " « « cend « ; cout « « " « « cend « ; end » ; end « ; end « ; end » ; end » ; end « ; end » ; e cout «(" « cosetw(10) « stree ")" « ende. Column: Hi 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 OOP USING CT Output: (-3928) (---- 91.5) (--- 00P - using - (++)

'set precision' manipulator:	
The 'saprecision' manipulator is used to set the number of digits to be displayed after decimal point. The is applied to all subsequent floating point numbers written to that output stream. Floating point values may be rounded to a number of significant digits. By default, the system displays floating point values with six significant digits. Set precision trailing zeros are omitted. 21.40 -> 21.40	
Syntax:	21.40 -> 21.4
setprecision (n)	-
=> The 'n' indicates the number of digits displayed after decimal point.	
Example:	Output:
#include (iostream)	4.91877
#include Liomanip?	4.9188
using namespace std;	4.919
int main()	4.92
}	4.9
double r, n1=132364, n2=26.91;	
$Y = \frac{n1}{n2};$	
cout « setpresicion (5) « r « endl;	
cout ex set precision (4) ex ecendli	
cout « set precision (3) « r « end li cout « set precision (2) « r « end li	
cout et set precision (1) ter tende;	
3 Court scepicesion	No.



```
txample
                            Output:
  #include Liostream>
  # include (iomanip) ********* 54786
  int main ()
    int a = 54786;
   cout « setw (20) « set fill (" * ") « accende;
   cout « setw (20) « setfill ( = ) « a « end «;
'fixed' Manipulator:
 => The fixed manipulator is used to further
control the output of floating-point numbers
Tt displays floating point numbers in a
fixed decimal format.
Syntax:
   = cout << fixed;
Example:
                            Output:
  # include xiostream >
                            24.353478
 # include ( iomanip >
 using name space std;
                            10.353456
 int main ()
   double a= 24.353478, b= 10.353456;
   cout << fixed;
   cout «a «cende;
   cout << b << endl;
```

```
'showpoint' Manipulator:
=> The showpoint manipulator is used to
display the decimal part even if decimal part
is zero.
=> Output the numbers with decimal point and
trailing zeros.
Syntax:
           cout << showpoint;
Example:
                              Output:
 #include (iostream >
 # include (iomanip)
                               1121.00
 using namespace std;
  int main ()
      float a = 1121.00;
      cout 44 showpoint;
      cout « a «cendl;
  int main ()
                                Output:
     float a = 11.00;
                                11.0000
      cout acshowpoint;
      cout « a «cendl;
```