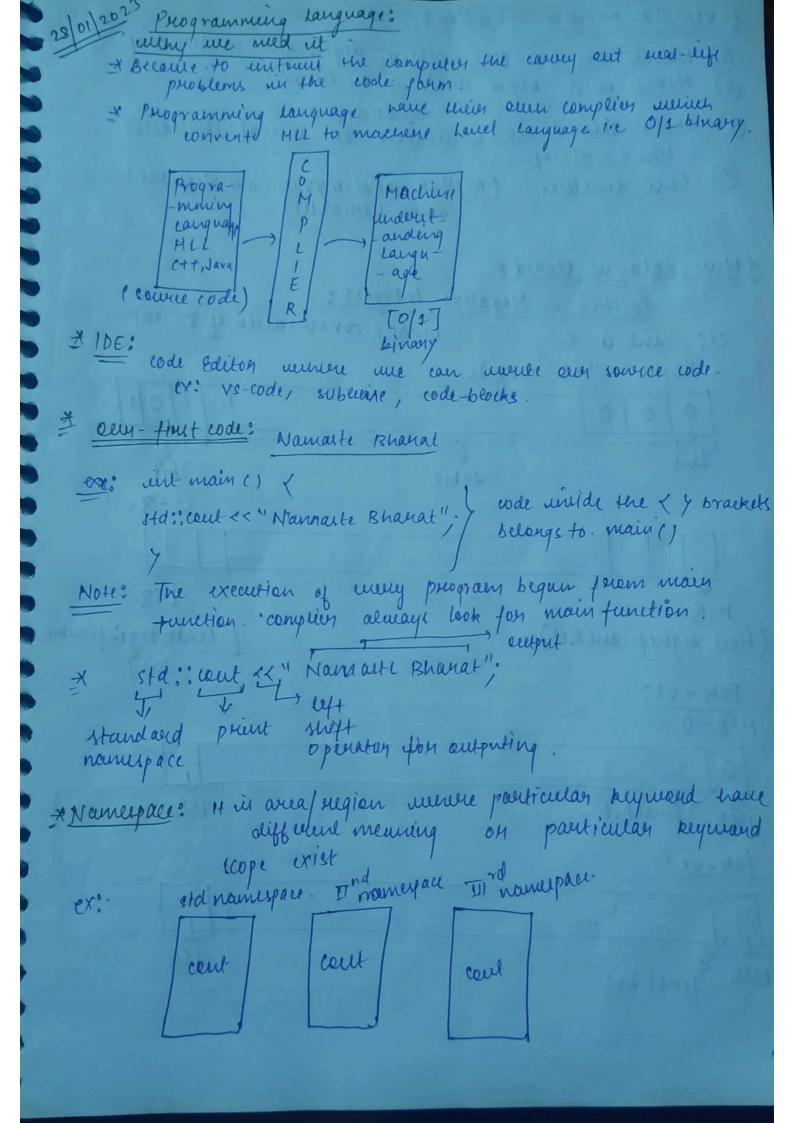
* <u>Data Stemetwees and Algorithms</u> * (C++). Basics to Advance

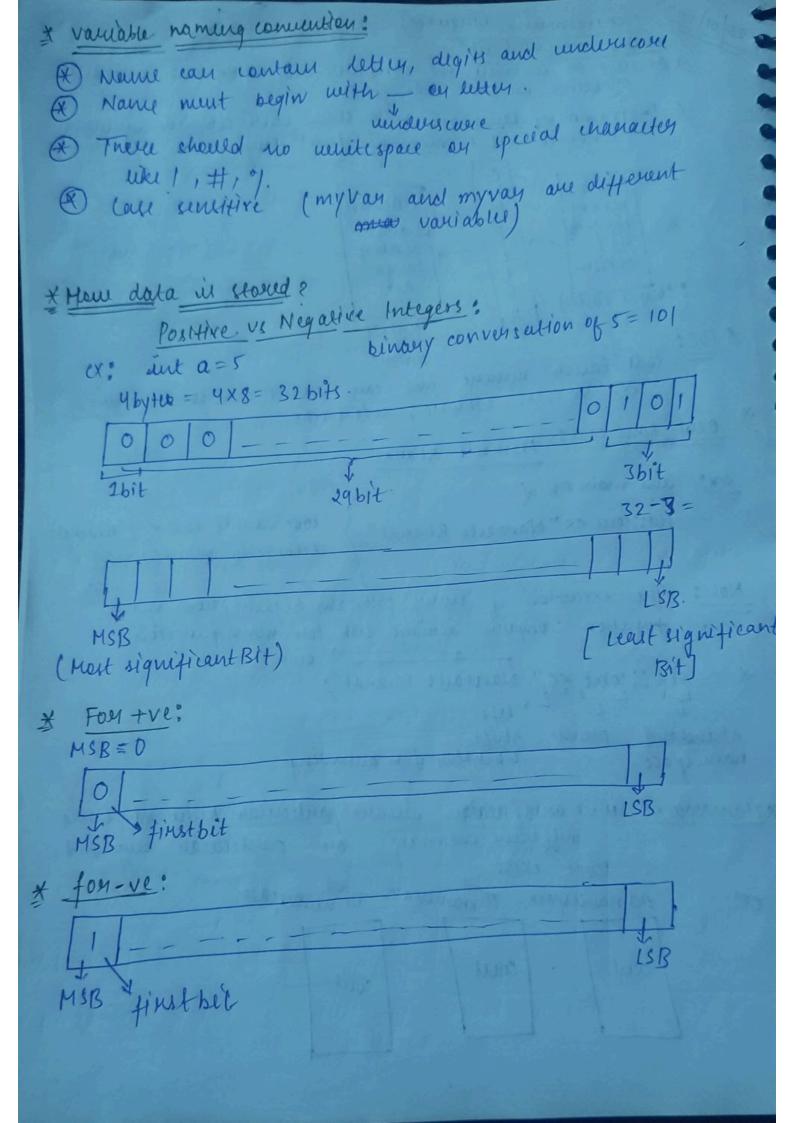
LinkedIn Profile: Subnat-Kuman-singh-597973207

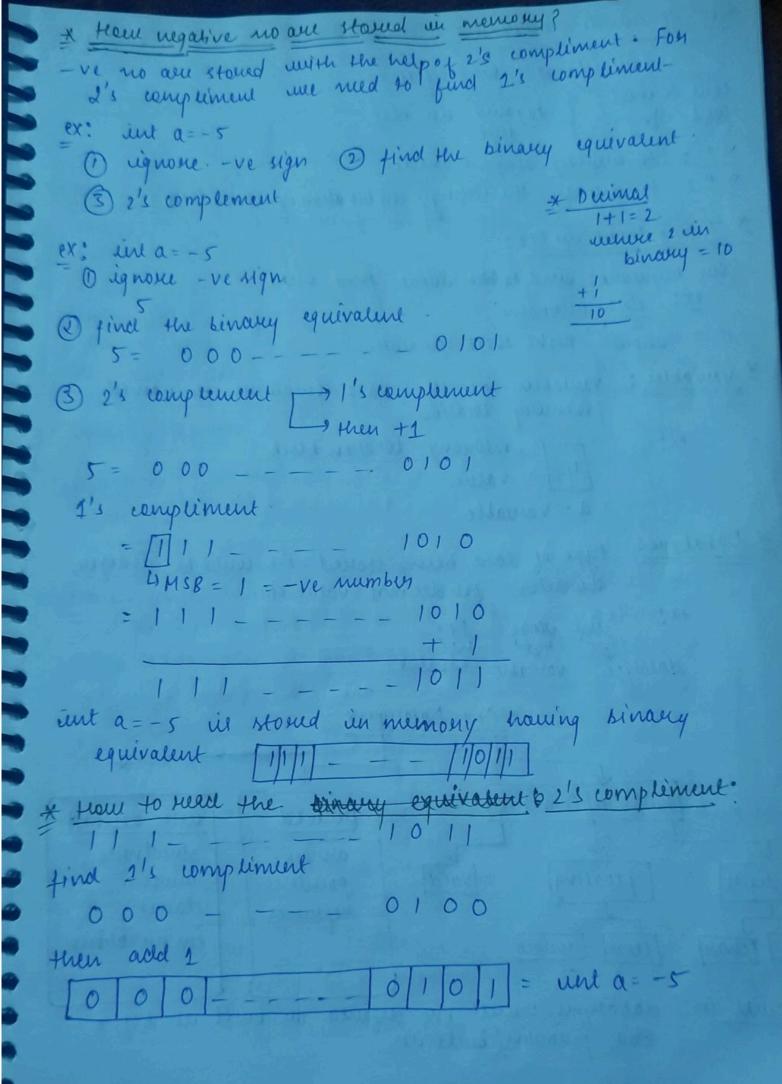
weentler by: Subnat Kuman Singh.

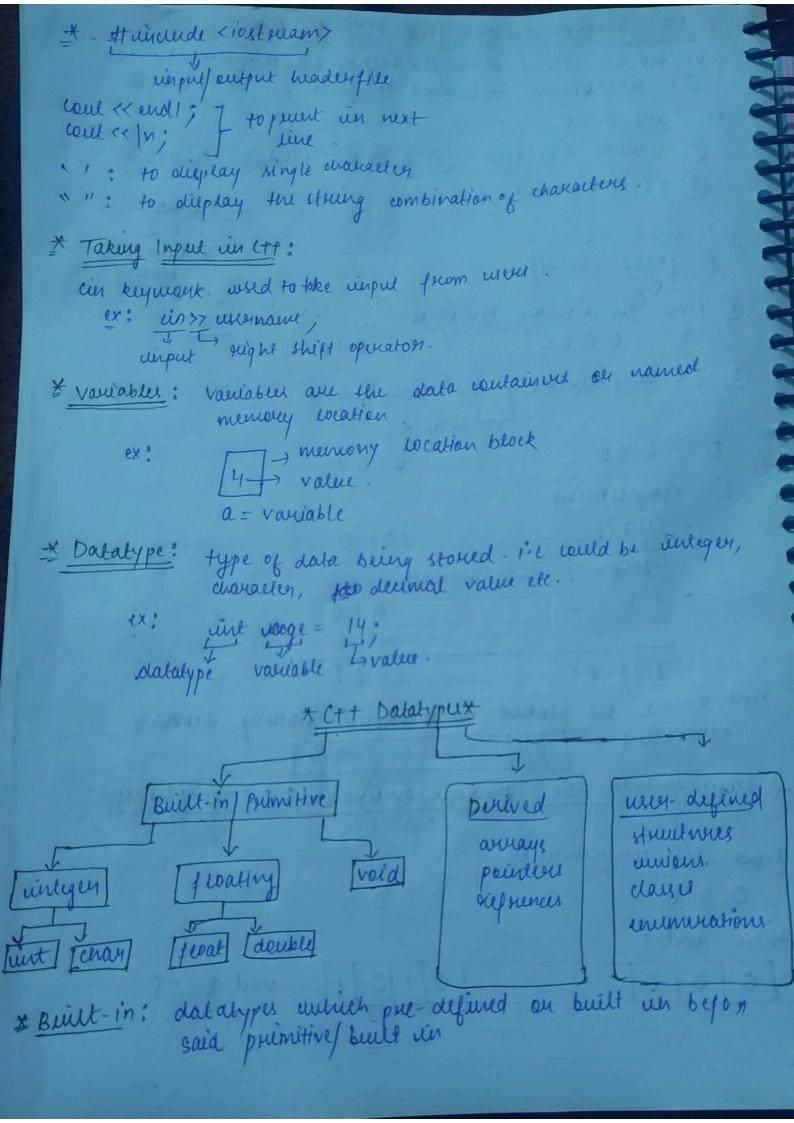
Contact No: 9350857818

gmail: subratsingh 2001@gmail.com

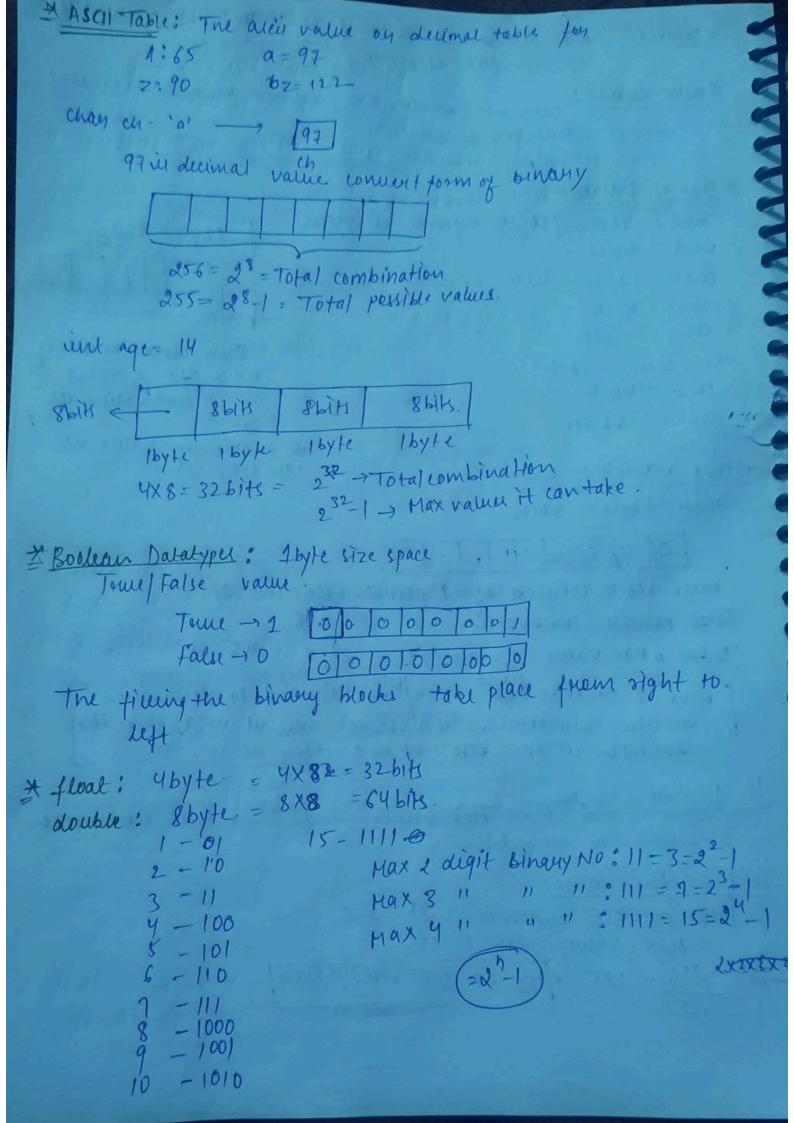


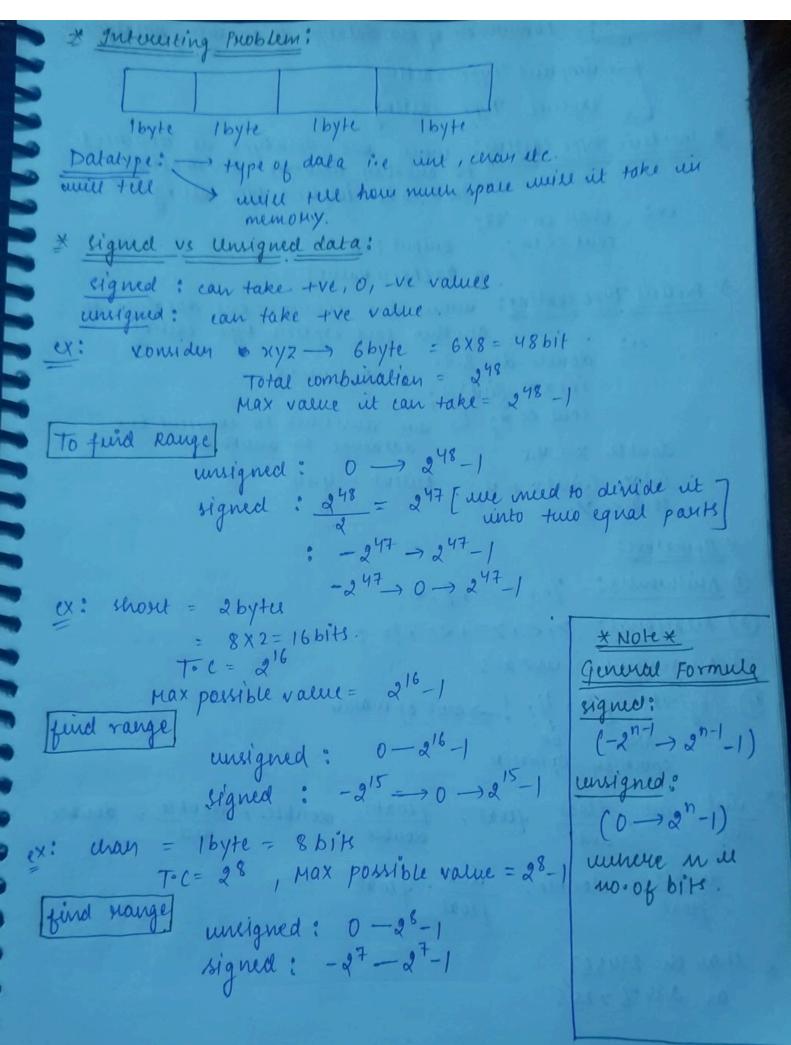






* Derived: Doctatypes which desired with the help of inbuilt or primitive datatypes - uses defined: paratypes which are defined by uses to create your bouen datatypes ex: class, structures et. * Lize of Dalatype : uiet: 46 yter 12 byter cliperale en system 1 byte = 8 bits woid: mill chay = 1 by te shout = Lbyte Each block coulds of long = 4byte either 0/1 : Total long long = 3 byte. no of combination il float = 4byte double = 8 bytes The maximum value ut can take. 28-1 Taking example of chan chay = 1 byte = 8 bits = earn block consists of 2 pessible value ice 0/1 Total possible combination in 28 = 256 Total o Max value vit can take = 28-1 = 255 Here - 1 because that block/bill reserved to deleumine " relatered mimber in the on-re. if it is a then the member il pre else it is their ut is -ve In general 2"-1 -> Flax values and 2"-> Total combination where n= no. of bits. 10 find the stange: Total possible outcomes = 28 = 256 Max value = 256 - 1 = 255 .: 256 = 128 # To be continued hater





```
Typecalting: convension of our dalatype to another dalatype
         Ly implicit Type costing
            explicit Type calting
  Insplicit Type Caeting: when one datatype is consented
                       to another datatype automatically
                       sald to be implicit type calling
       ex: char ch= '97;
            coul ex ch; output: a
                       a= 97 (ASCII value)
  Francis Type cooling: when we convert one datatype to
                      another said explicit type carring.
         ex: double d= 8.9; output:8
              intx = (int)d;
               cout « x; Ly ine instruct to consent one
       double X= 4.5 datatype to another
        int x = (in) x + 4; output = 4+4
        cout ex y:
  * Operators:
 1 Asiethentic: 1., +,-,/,*
 2) Relational: 7/</7=/<=/!= ===/
 3) Assignment: wint a=5
 4) Logical: 12, 11, 1-2 not operators
        operation operator
int = unt, float = float; float = double, double = double.
    float deuble, just = float.
x May Un=234567.
```

as 23456 7255