- 14 fections - 6 - 5 function of furthern wetatern T Compalmant hunceten to linked a well defined ar withy six want to use funding And when we want to meme the and snipper again & again. St we capy pasts same rade as again then rade will be move 4 hoggy tode. Some consule function because is we want to that pavificulary function there we can call it I was it. Exi- word partners () fot o east 22 " Enter a" 22 and 2 " ein son: for (int 1=0; 1=5; A++) \$ rest es "House"+ function has it's dieturen type Syntaxir. Wedwin 0; @ when we we woid fundion then it provide no origint.

Function Syntaxion Return type function name () -- booly function name use name of function which should be underestandable of many meaning ful. Return type ave :- void jint, float Exor Int main (1) No Proput power exert netonin o or What is weturn . O & Why we used it? Anst- Return 0 means that main function is was intended to do.

40 Cala & amore two male tunction? We can't no weate two main fines St show's an evivious one main sunchis, is previously define # Can I give input parameters? Yes, we can give Input povermeters. promoter is a special kind of variable used function to suctous to one piece of data persuide to con 3 wetween 3? as input to the As we town a means function. that there is some evivious while executing the Lit is not prosferming what it was intended to de # con 2 wetwer -1) Same as vieturo (1). * Function budgets function outdeal means 1) we have to first declare the function @ Whove use de function invoke attent the function declared frontly by ite Function call spaces Stock is type of data stornatone storne specific data.

". Memory Location :- Address of variable stack follow (Ifo (last In Frust out). Stack give an information of:-1 function call 1 which function call another function 1 function local vausable's. @ function Return value. Function Return 0 to the operating system. Q- How to puint address of a? cout is "Address of a" it fa; endl; of -) openatour use, to find address of a. G- pluste function to add 2 numbers? Anst pont add (, I Port a, int b) It S int sum = atb; 3 St called int main () & Pass by fundant deline int a3b3 cin >> a; Cin ?? b; ent sum = add (a, b)

cout ce u Add is: " ce som ecendl;

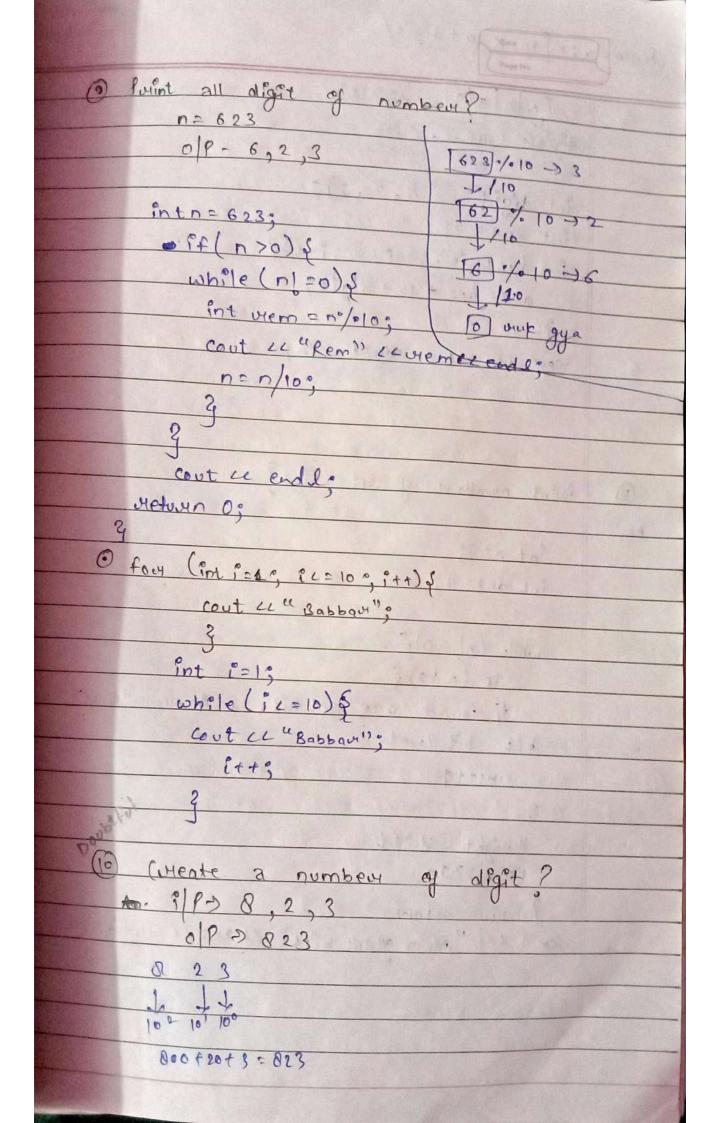
In Paper four Interview by Value ?-It not pass the actual value of main function quoid quint list ou Exi- main () & fort num=12; 12/213 num ++ " syl +thum; purint (num); 1 cout LL num; 13 Ansi memor lint of interpretation to some on. int find man (int a, intb jint c (f(a) b & f a>c); \$ vetuun a; 3. elseif (bra 44 b>c) s Metuan b; 3. else (c> a 44 c>>>b) & MEAUNT CA

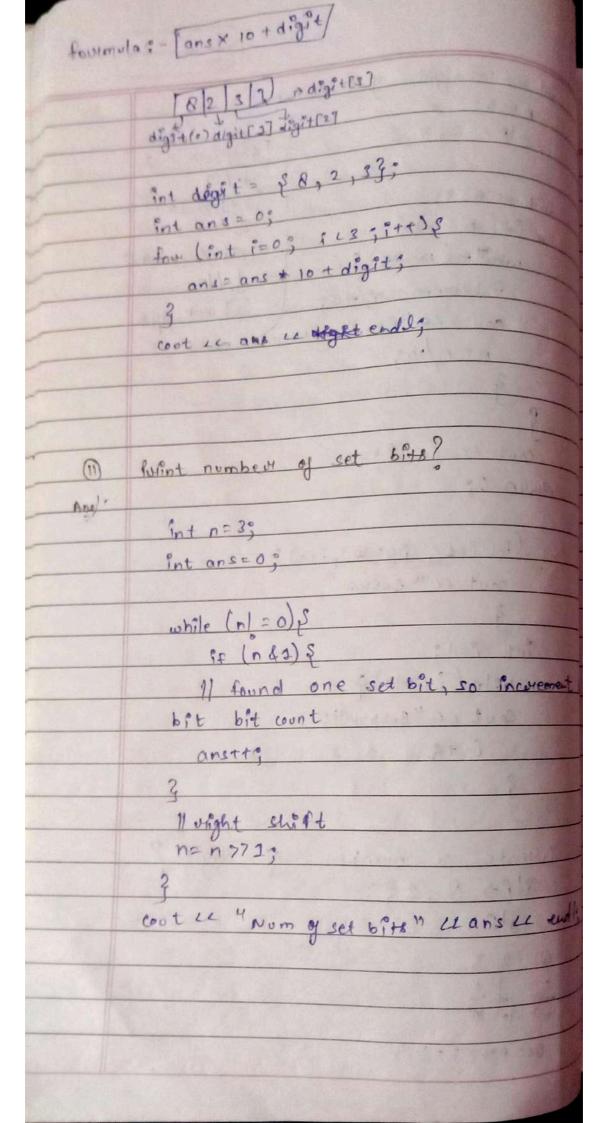
```
let main () $
       ein sen se b sec;
       for man = find man (a, b, c);
        cout dele man" de man le endle
 and counting of to N?
            four (fint i=1; 14=1) ; 1+1) {
           cout se and d;
           fint main () $
           int no
           cout it " Enter number" wendl;
            ein >7 ns
           putint counting (a);
           vietovin 0;
   we (void) using because we only point the
B- Write function of student & Guade Puroblem?
Avel moules > = 90 7A.
                 22 00 -3 B
                 7 770 AC
                 7260 7 D
                 160 3E
     chave get Grade (int moure);
         if (moveps > = 90)
             vieto un 'A';
```

relace is (months >= 80) preferen 18's else (f (maisles >= 70) mercino 16,2 des is (marks > = 60) present (p) . exercis () ; int main OS cost 20 " Entery mary " 22 endle cin >> maules : cher quade = get quade (maybs); cost ce "quade" se quade ce ende return 0", } 8-1 What diff bow Pawameters of Augument me! where (n) is declare called parameter where (n) is declare in int main function called augument. Q- Find sum of Even no upto N? Pat get sum (into) \$ int sum co; for (int 1 = 1; 1+1) }. if (i /2 = =0) of Sum = sum +in metuun sum.

int main () \$ cost co " Entery n" co endel" int anis = get som (n); coot ac a Sum " ac ans ac endlo -> Homework < a wuste a function to display away of civide O find number is even our Odd @ Find factoural of number O enede number is prime ou not @ puint all puine number furom 2 to N. B set ith bpt no 8 > 1000 milet = 1001,9 (8) Convert celsius to fahrenheit. O Puint all digit in an integer . O Correcte a number using digit Puint number of set bits. 12 Puint binavy equivalent of a second Number. @ convent distance in kms to Miles. 9. Can be write any expression inside the case of switch statement? Any in The empuression used in switch must be integural type (int, chauf enum). Any others type of expression is not allowed.

| | + find fartowial mais |
|--------------------|---|
| g- | July we can not find factouria) most, number 13? |
| | pumber 137 |
| Ans | C. 000 |
| | in undefined behaviour in c/c++, yeu in undefined behaviour in c/c++, yeu |
| | assume that the viesult of the factours- |
| | does not exceed INT-MAX which of |
| | 2347483647 four 32 bet signed |
| | întegeut. |
| | |
| | -> Weefely connect 2 -> |
| | |
| | $n = n/5$ $O = n \neq n \neq 0$ |
| | x = 5 xx = 8 |
| | 12 3 30 30 |
| # | conditional revinary operatoris- |
| | 1 f (age > = 10) |
| | cost ce "Can vote"; |
| | else |
| | coot « Cannot vote"; |
| | cool cannot vote |
| | 1 th 0 |
| | Condh? statement1: statement 2. |
| | |
| * | Exer int a = s; |
| - | int belog |
| 7-1 | 6. |
| | Int ans 3 = (++a) * (-+b) 54-01 |
| Transaction of the | Port ans 2 = (++a) * (b) -0/P-70 |
| | int ans 3 = (a++)+0(-+b) 01P-49 |
| | Int anch = 1 1 |
| | (a++)*(b) 0 9-56 |
| | |
| | |

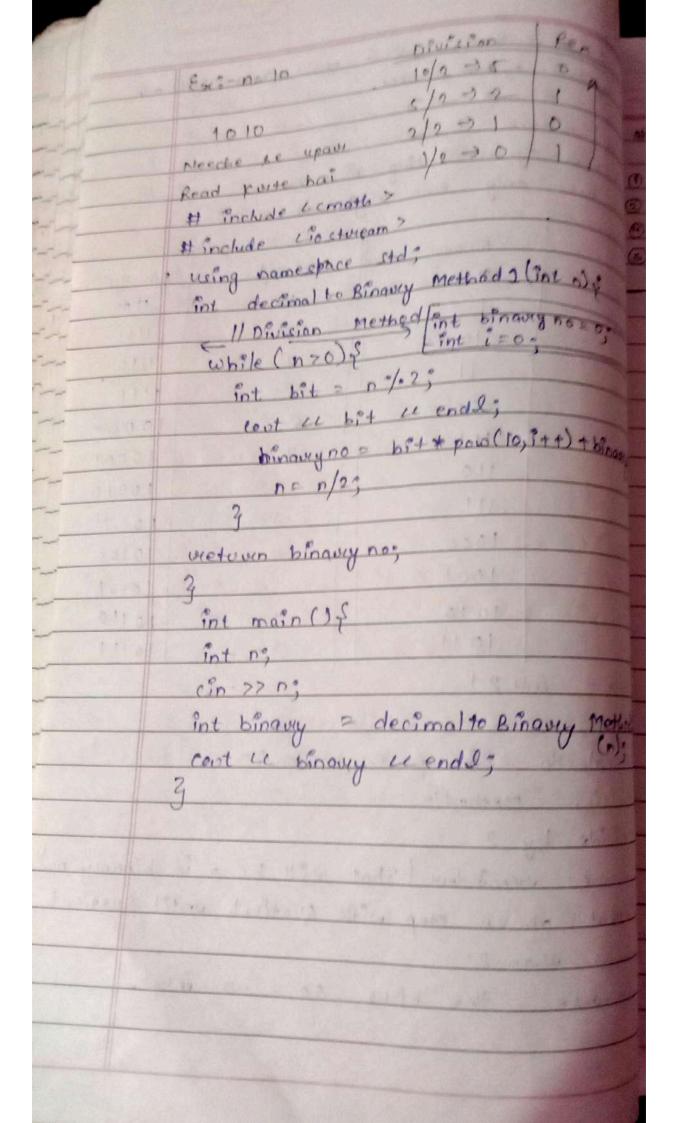


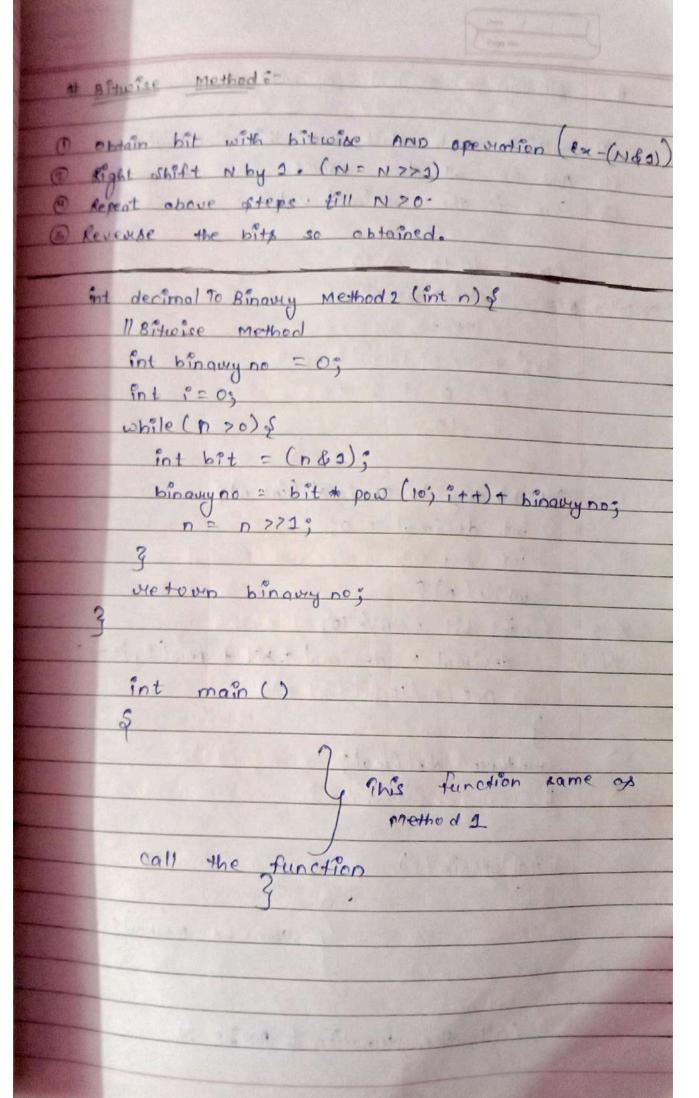


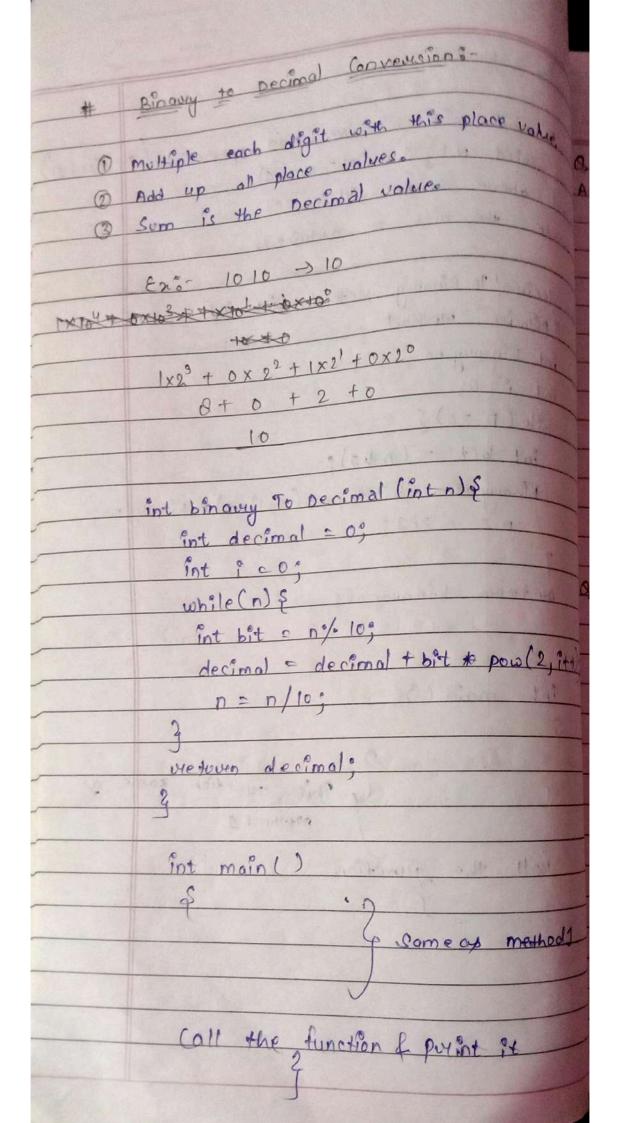
11 -> 0000 | 0 | 1 1 + 2 sabit 2 ts set bit >> Righ shift by a 0000 [0] 1 -> 2 500 676 >> Right shift by 2 0000 10 a to the same of the >7 Right shif 00001 1 -> 2 set bit 27 Right swift 0000 -> 0 (Ruk aya) (12) Convert km into miles? Aug - 1 km = 1 miles 1 miles = 2.6 1.6 pm int km; cout LL " Fortery the value of lom" LL endl; exat & cin 77 pm; cout et uvalue in miles is "Le(2/206)*tm Le endel;

Q- July there are infinite no. of the There are infinite no of yest En the negative numbers because has no last element . These element not be counted A infinite set that be placed into a one-to one comme with a proper subset of itself. why negative no. of set bits getting supply of bits in loop? Andr 12 # Number System - Binowy &4 Decimal 3- Method to unpresent numeric value ou quantities using diff digits 0,1,2,3,4,5,6,7,8,9 Ex! 10, 17, 121 2- Decimal System/ . The decimal number system has base · It uses digit forom 0 to 9.

| | Chapter | | | | | |
|--|--|--------------------|------------|--|--|--|
| Rase :- It is the number of symbols (digit) a. | | | | | | |
| | | The state of the A | | | | |
| 3 Binaux | Number System - | | | | | |
| @ Number | u system vising | base 2. | A PROPERTY | | | |
| @ 21 us | es only two d | igit is 0 & 2. | • | | | |
| | | and the same | , | | | |
| pecimal | Binavy | Decimal . | Binguy | | | |
| 0 . | 1 1 0 1 by 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 12 | 1100 | | | |
| 1 | 1 3 148. | 13 | 1101 | | | |
| 2 | 10 | 14 | 1110 | | | |
| 3 | 11 | 15 | 1111 | | | |
| 4 | 100 | 16 | 10000 | | | |
| 5 | 101 | 17 ; | 10001 | | | |
| 6 | 110 | 18 | 10010 | | | |
| 7 | 111 | 19 | 10011 | | | |
| 8 | 1000 | 26 | 10100 | | | |
| q | 1001 | 21 | 10101 | | | |
| 10 | 1010 | .22 | 10110 | | | |
| 11 | 1011 | | 10111 | | | |
| Rule - | 8421 | | Here the | | | |
| | mand stranger | | | | | |
| | | | | | | |
| Decimal | to Binawy Con | vention. | | | | |
| Division | Method! | | | | | |
| 6 Divide | by 2 | | . 1 | | | |
| Store reminder (That will be a in binary no) | | | | | | |
| Repeat above step with quotient until quotient | | | | | | |
| less than 2 | | | | | | |
| Revenue | e the boy | so obtained. | | | | |
| | | | | | | |
| Revenue the both so obtained. | | | | | | |
| | | | | | | |







| Silfue | who so display Aurea of City | cle) |
|--|--|---------------|
| | | |
| | int get ower (int w) & | |
| | int owen = 3 - 14 + u + u + | |
| | Wetown aura; | |
| | The state of the s | |
| | int main () 5 | |
| | ant wij | |
| | text of "Enter the Rodius" ! | |
| | rin > ? or; | |
| | Int avea = getainea (v); | |
| | cost ex 4 Avea of civile & " 11 | awea ce endle |
| | retorn 0; | |
| 5 | | |
| | | |
| PERSONAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN 2 IN C | ind number is Even our odd? | |
| Ans - | 1 1 1 1 1 | |
| | bool check Even (int n) § | other code in |
| | 1+ (n./.2 = = 0) { | VS code |
| | return true; | |
| | 3 | |
| | else & | |
| | exetuen false; | |
| | 3 | |
| | } | |
| | int main () § | 4 |
| | int n; | |
| | cin >> n: | |
| | bool de istven = check Even (r |); |
| | if (ic Even) & | |
| | | |
| | , cout LL "Number is fre | ,"; |

| | | alse & " is odd" et ends |
|---|------|---------------------------------|
| | | else & "Number is odd" et ende, |
| med - | | 3 |
| | | 3 |
| | | mothed |
| | -> | four Bitwite Mothod |
| | | bool checkEven (int n) & |
| -21 | | bool check Even in |
| | | |
| | | metono tone; |
| | | 3 |
| | | , (|
| | | else & return folse; |
| | E HU | 2 |
| | | |
| THE COURSE OF THE PARTY OF THE | | main function some method 3 |
| | | main function son |
| | | and the factorial of Number ? |
| 9-3 | - F | ind the factorial of Numbers |
| Ans | 1-1 | |
| | | int get factorial (int n) & |
| | 1 | Int ans=2°, |
| ° | | four (int i=1; i = n; i++)& |
| | 1 | |
| - | 182 | ons= ons * i, |
| | | 7 |
| | | vietuun ans; |
| | 2 | |
| - | J | |
| - | 1 | |
| | int | main Us |
| | | |
| | | t n; |
| | cou | t 11 " Enseur number"; |
| | | 27 n 1, |
| | |) |
| | | |

ent co "factorial is ?" ce fact wendly we can use at place (Pnt) -> (long long Pnt) four the large number of values. 8-4- Given Numbert is Prime our Not? Agel bool sheck Pulime (int n) § four(int i=2, i2n; i+1){ if (n% = ==0) \$ retiren false, metuan tume, the second secon int main Of int no cout il " Entery number"; cin ?? n; bool iskuime = gethuime (n); if (islyime) of cout it " Number "e Puime" " econde; else & Cout a l'envember s'e not luime" " endl:

| 0-5- | Purint all purime furon 1 to NO |
|-----------|--|
| Anst- | The state of the s |
| | hool checkfryime (int n) & |
| | for (int = 2; icn; +) 5 |
| | if(n=/.i==0){ |
| | preture false; |
| | 3 |
| | 3 |
| | vieturo truce; |
| | 3 |
| | int main () & |
| | int of |
| | Cout LC " Enter Number : " Clands |
| | cin 77 n " |
| | 2/41: 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| | fou (int i=2; i = n; i++) { bool isluime = checkluime (i). |
| | if (is lying) & |
| | cont es i es un |
| | 3 |
| | 2 |
| | 2 |
| 1 MOINTEN | \$mp |
| Aute 3-6- | Revenue an Integery? |
| Ans/ | |
| | 118 -> 123 , -123 . |
| | ofp => 321, -321 |
| | |
| | |
| | |

```
int verouse (int x)s
    Int ance of view = 0;
    bool is Neg = false;
    $ (NEM-THI = 1 x) 12
    vietuvino; question of ceet code
                  Question 8.
    st (x co) $
     is Neg = torue; | link :- nttps: // leet code.
    x = -x = | com/pulchlems/ vieveuse -
   while (x70) s
    $ (ans > INT_MAX /10)$
     Meteron 00
     int digit = n/- 10;
       ans = ans * 10 + digit;
      X = x/10"
     vietour is Neg? - ans 6 ans;
 Anterio Pen Japa
9-7- set the 1th bit?
Ans/- N=10 -> 1010".
  Set = 2 → 1110 → 14/
    3tep 3 - 2's compliment.
             1010 126 K.
        to 0000 (Check set kth bit
    step -2 -> DO Bitwise OR N& volue
            1010
          0000
            1110 ->14
```

```
int settibert (int My int k)
       for mask = 3 11 ps
       fut and = N | mask;
      wirtum ans;
      int set kth Bit (int N, int k)
       vieture NI (sux);
      Coleius to funborit?
9.8-
        Celaux Expelvin
Ans/
       double k = celeius + 273-15;
       double f = celsiup * 1.80 + 32.00.
      vector & double > v;
      v. puchbock ( );
      v. puch-back (A);
      detoun's
      3-1 -1 -1 -1 -01 - --
     C++ Quis 2 -> Done
     Debugging Exaucine 23 pone
-
```