

28.8

C programming part 1a no 7

(To display Name Roll no & percentage)

Aim - write a c program to understand basic data type and input / output

Requirement - Turbo C

Algorithm

Step 1 - declare a variable name rollno as intiger also declare name mobile no as character and percentage as float
Step 2 - we print function to print question for user in order to give input

Step 3 - we use scanf function to read user input and store in its allocated memory

Step 4 - again use printf function to display the output

Conclusion - The given program gives us an idea about how built in datatype work inc and also about how user can give input and display output

start

```

#include <iostream.h>
#include <conio.h>
void main()
{
    int rollno;
    char name[20], mobile_no[15];
    float percentage;
    clrscr();
    cout << "enter student's name : \n";
    cin.getline(name, 20);
    cout << "enter student roll no. : \n";
    cin >> rollno;
    cout << "enter student mobile no. : \n";
    cin >> mobile_no;
    cout << "enter student percentage : \n";
    cin >> percentage;
    cout << "student name : " << name;
    cout << "student roll no : " << rollno;
    cout << "student mobile no. : " << mobile_no;
    cout << "student percentage : " << percentage;
    getch();
}

```

Output

Enter student name

gash

Enter student roll no

1882

Enter student percentage

60%

Enter student mobile no

9877061011

student name : gash

student roll no : 1882

student percentage : 60

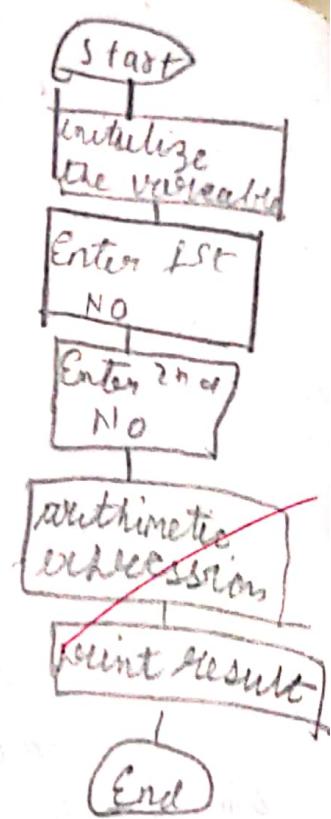
student mobile : 9877061011

Code

```
#include < stdio.h>
#include <conio.h>
void main()
{
    int num1 num2
    float add , sub , mult , div;
    clrscr();
    printf("enter first number : n");
    scanf("%d", &num1);
    printf("enter second number : n");
    scanf("%d", &num2);
    add = num1 + num2
    sub = num1 - num2
    mult = num1 * num2
    div = num1 / num2
    printf("addition of %d and %d is %d/n", num1, num2, add);
    printf("subtraction of %d and %d is %d/n", num1, num2, sub);
    printf("multiplication of %d and %d is %d/n", num1, num2, mult);
    printf("division of %d and %d is %d/n", num1, num2, div);
    getch();
}
```

Output

Enter first number : 3
Enter second number : 3
addition : 6
subtraction : 0
multiplication : 9
division : 1.



Aim:- write a c program on operator and expression

Ques Theory

write a program to create a dynamic calculator

Algorithm

Step 1:- declare a variable name for first and second number as integer

Step 2:- now use scanf function to receive input from user

Step 3:- now to add two number given by user use the expression num1 + num2

Step 4:- now to subtract two number given by user expression num1 - num2

Not Step 3:- again use expression num1 * num2 if user wishes to multiply the two inputs

Step 5:- use expression num1 / num2 if user wishes to divide the two point

Step 6:- now use printf function to display output

b) Write a program in C to explain ternary operator
algorithm

Step 1: declare variable a, b and x

Step 2: store the value of a as b and store the
value of b and a

Step 3: now to compare between who is greater use
Ternary operator & to find

Step 4: Use printf function to display output

Conclusion :- These program will help us in having
better understanding about operators and expressions

Chmod

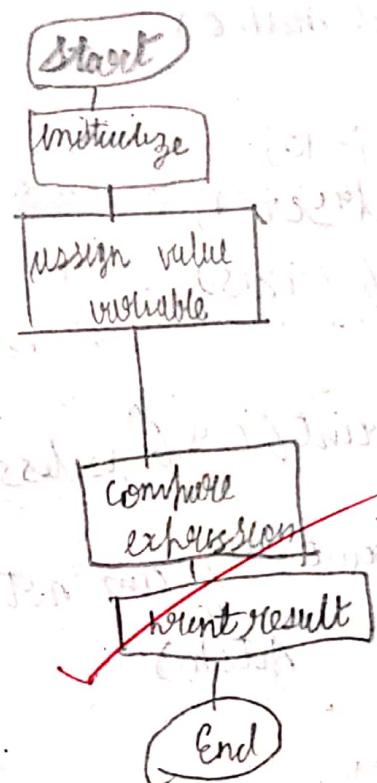
b) code

```
#include <stdio.h>
#include <conio.h>
void main ()
{
    int a,b,x;
    clrscr();
    a=5
    b=15
    x=(a>b)? a:b;
    printf("%d",x);
    getch();
}
```

output

15

26



#include < stdio.h>

#include < conio.h>

Void main()

```
{  
    int i=10;  
    char c;  
    if (i>5)  
        getch();
```

{
 pointfc("to is less than 5");
}

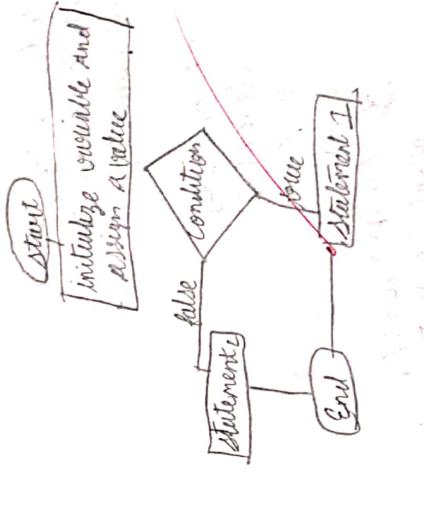
point ("if can not in if")
getch();
}

Output

to is less than 5

b) code

```
#include < stdio.h>  
#include < conio.h>  
int i=20  
char c;  
if (i<15)  
    point fc("20 is smaller than 15");  
else  
    point fc("20 is greater than 15");  
getch();  
Output
```



Practical 3

27

Aim : write a program in c on decision statement (if, if-else, nested if-else)

Theory:

a) write a program in c to explain if statement

algorithm

step 1: declare a variable as integer and assign its value i.e 20

step 2: now to compare whether 20 is greater than 15
use if statement

step 3: if the conditional is true print that 20 is less than 15 & if conditional is less than 15 is false skip the if statement and print and in if.

b) write a program in c to explain if else statement

step 1: declare a variable as integer and assign its value i.e 20

step 2: now to compare the given value if its greater or not use if else conditional statement

step 3: if conditional is true the print 20 is less than 15 or if conditional is true then print 20 greater than 15

TS

(1) write a program in C to explain nested if statement
algorithm

Step 1 : declare a variable as an integer and assign

Step 2 : now use nested if logic to compare it
given is greater or not

Step 3 : if first condition is true then go to second
condition if second conditional is also true then
print that 20 is greater than 15 and 12 if one
of conditional are not true then skip the part
and print 20 is greater than 15 and 12

Conclusion : These program help us to understand
the working of it and nested if conditional
statement

Barode

```
* include < stdio.h >
* include < conio.h >
```

```
void main
```

```
{ int i=20;
```

```
clrscr();
```

```
if (i<15)?
```

```
{ if (i>25)
```

Errent if "20 is less than 15 and 12 <n>";

3

3

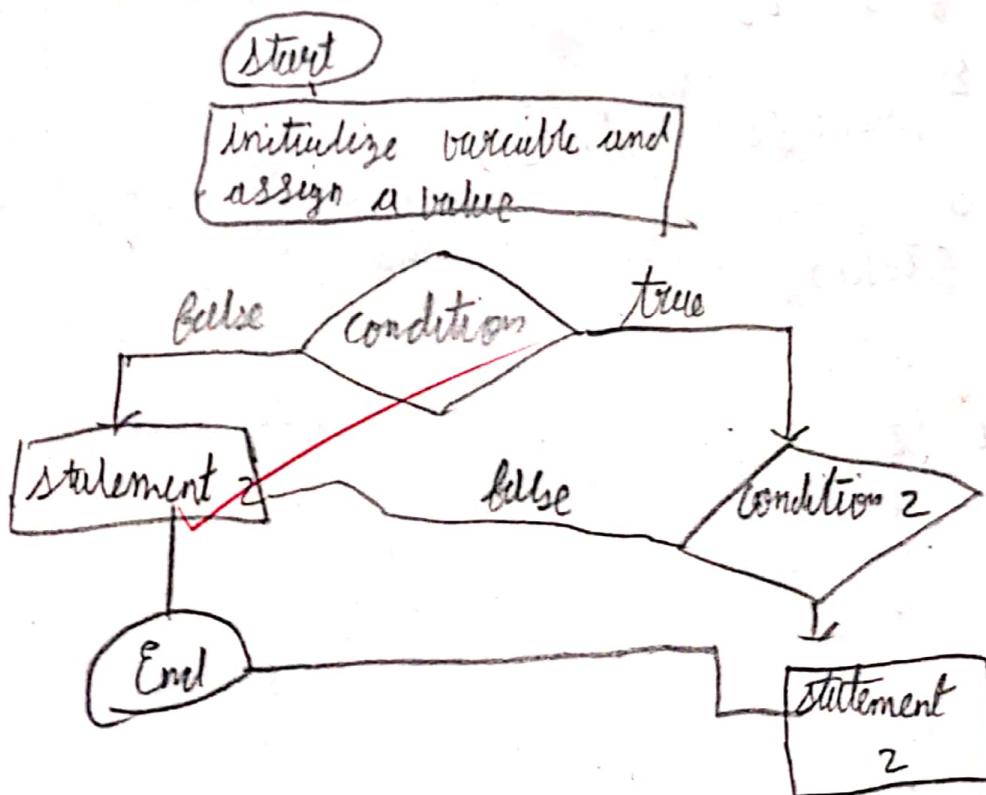
```
else
```

Errent if "20 is greater than 15 and 12 <n>";

3

```
getch();
```

3



SS Coding

```
#include <stdio.h>
#include <conio.h>
void main()
```

```
{ int n, i, q
```

```
clrscr()
```

```
printf("the name no.%d\n");
```

```
for(i=2, i<20; i++)
```

```
{
```

```
a=0
```

```
for(n=2, n<(i+1)/2, n++)
```

```
{
```

```
if (i%a == 0)
```

```
{
```

```
att)
```

```
}
```

```
3
```

```
if (a==0)
```

```
{
```

```
printf("%d\n", i);
```

```
3
```

```
 getch();
```

```
3
```

Output

:2

3

5

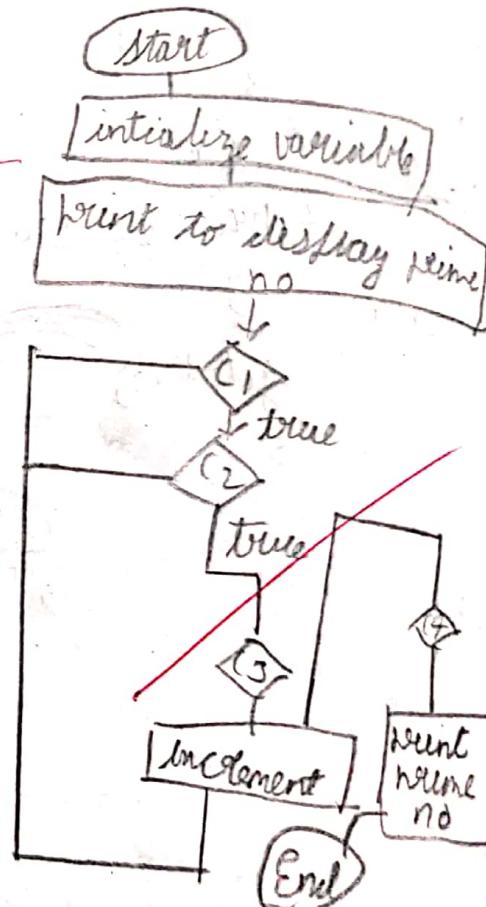
7

11

13

17

19



aim :- to display the prime number using for loop

algorithm :-

step 1 :- initialise the variable out of which two are loop variable and one is count variable

step 2 :- initialise a for loop within the loop in step 1 that goes to 2 to the first variable a_1

step 3 :- nest another loop within the loop in step 2 that goes to 2 to the first variable a_2

step 4 :- use the if conditional statement to check whether 1st loop variable or 2nd loop variable is 0 if true increment count variable by 1

step 5 :- come out of the second loop and check whether the count variable is 0 if true print the number

step 6 :- terminate the program.

Conclusion

prime numbers were displayed using for loop

85

b) aim :- write a c program of fibonacci series

algorithm

step 1 : start Turbo C

step 2 : declare the variable n_1, n_2, n_3 i,j, number

step 3 : initialize the variable $n_1=0, n_2=1, \text{ number}=0$

step 4 : Enter the no of terms of fibonacci series to be printed

step 5 : print first 2 terms of series as $n_1=0$ and $n_2=1$

step 6 : use the for loop for following step $n_3=n_1+n_2$ $n=n_3$
increase the value of element each time by 1

step 7 : print the value of number

step 8 : End

Conclusion :- we have successfully executed fibonacci series

```
#include <stdio.h>
```

```
#include <conio.h>
```

```
void main
```

```
{ int n1=0, n2=1, n3, j, number;
```

```
clrscr();
```

```
printf("Enter no of element (%d);", n1);
```

```
scanf("%d", &number);
```

```
for(i=2; i<number; i++)
```

```
{
```

```
    n3=n1+n2
```

```
    printf("%d", n3);
```

```
    n1=n2
```

```
    n2=n3
```

```
}
```

```
getch();
```

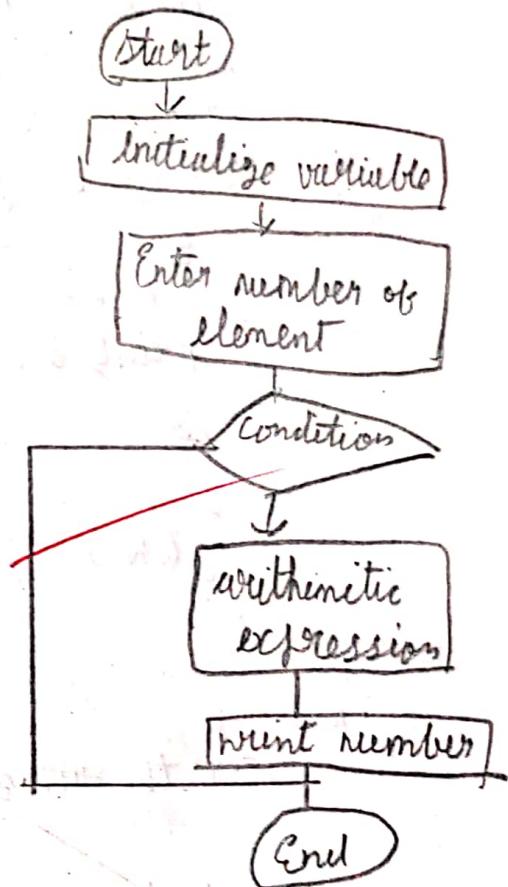
```
3
```

```
Output
```

~~Enter a number~~

~~+~~

~~0 1 1 2~~



#include <stdio.h>
#include <conio.h>

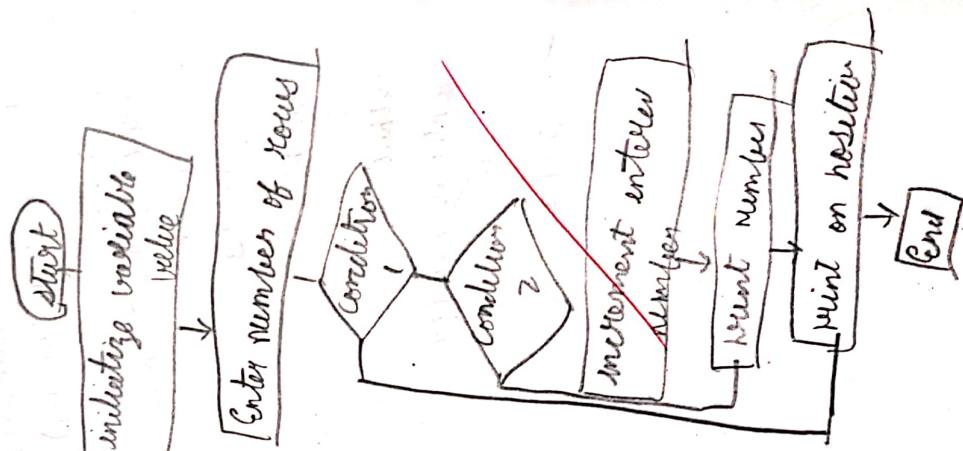
void main ()
{

int n=0 , i,j,k,f;
clrscr();
printf("Enter the number of rows ");
scanf("%d" , &n);
printf("Enter the value ");
for (f=0 ; f<=n ; f++)
{
 n++;
 printf("Enter the value ");
 scanf("%d" , &n);
}

getch();

Output
Enter the number of row

2
3
4
5
6
7
8
9
10
11
12
13
14
15



write a c program on following expression

1							
2	3						
4	5	6					
7	8	9	10				
11	12	13	14	15			

~~algorithm~~

step 1 :- start the turbo c program

step 2 :- declare the variable rows si, j, number = 1

step 3 :- display the number of rows

step 4 :- now create nested for loop $i=1 \text{ to } \text{rows}, j=1 \text{ to } i$

step 5 :- now create number as per user enter the sequence from $i=1$

step 6 :- display the number as per user enter the sequence from $i=1$

step 7 :- increment number from 1

step 8 :- display the shape

step 9 :- End

conclusion :- Thus we suddenly execute expression on turbo c

Practical nos

Aim: C program to find largest strong number using
array

Algorithm:

Step 1: Start Turbo C application

Step 2: Declare the variable and integer array a[10]

Step 3: Enter the for loop at i=0 i<10 and use
the value of a[i] till i<10 and the
for loop

Step 4: Enter the for loop at i=0 i<10 use
if conditional statement to check
if $a[0] < a[i]$ if true put $a[0]=a[i]$

Step 5: Run the above for loop for i<10 exit the
loop.

Step 6: Terminate the program.

```
#include <stdio.h>
#include <conio.h>
```

32

```
{ int a[10], i, j;
clrscr();
printf("Enter the element of the list:");
for(i=0; i<10; i++)
{
scanf("%d", &a[i]);
}
```

3
for (i=1; i<n; i++)
{

~~if (arr[i] > arr[j])
arr[i] = arr[j]~~

3
Want to find "largest Element = %d\n", arr[0];

getch();

3
} // End of for loop

Initialise arr[0] = max
for(j=1; j<n; j++)
{ arr_size = arr[j];
if (arr_size > arr[0])
arr[0] = arr_size;
}

3
Output A
12 2 100
23 12 22
35 3 100
2
The largest No. is 100

$arr[0] < arr[1]$
 $arr[0] = arr[1]$

Print Statement
Default Statement
for(j=1; j<n; j++)
{ arr_size = arr[j];
if (arr_size > arr[0])
arr[0] = arr_size;
}

```

#include < stdio.h>
#include < conio.h>
void main ()
{
    int array [100], i, num;
    printf ("Enter the size of array (n) ");
    scanf ("%d", &num);
    printf ("Enter the element of array (n) ");
    for (i=0; i<num; i++)
    {
        scanf ("%d", &array[i]);
    }
    if (array[i] % 2 == 0)
    {
        printf ("%d (%d)", i, array[i]);
    }
    else
    {
        printf ("An odd no. in the array (%d)", array[i]);
    }
}
getch ();
}

```

aim : write C program to print the number of odd and even numbers in the array algorithm

step I : Create an array list its size from user and defined and define element using loop

step II : display the size of array

step III : display the element of array entered by user

Step IV : take the initializers in a for loop using which all the element of array exist

Step V : display even no from the array from for loop

if (array[i] % 2 == 0)

display the even no from the given array

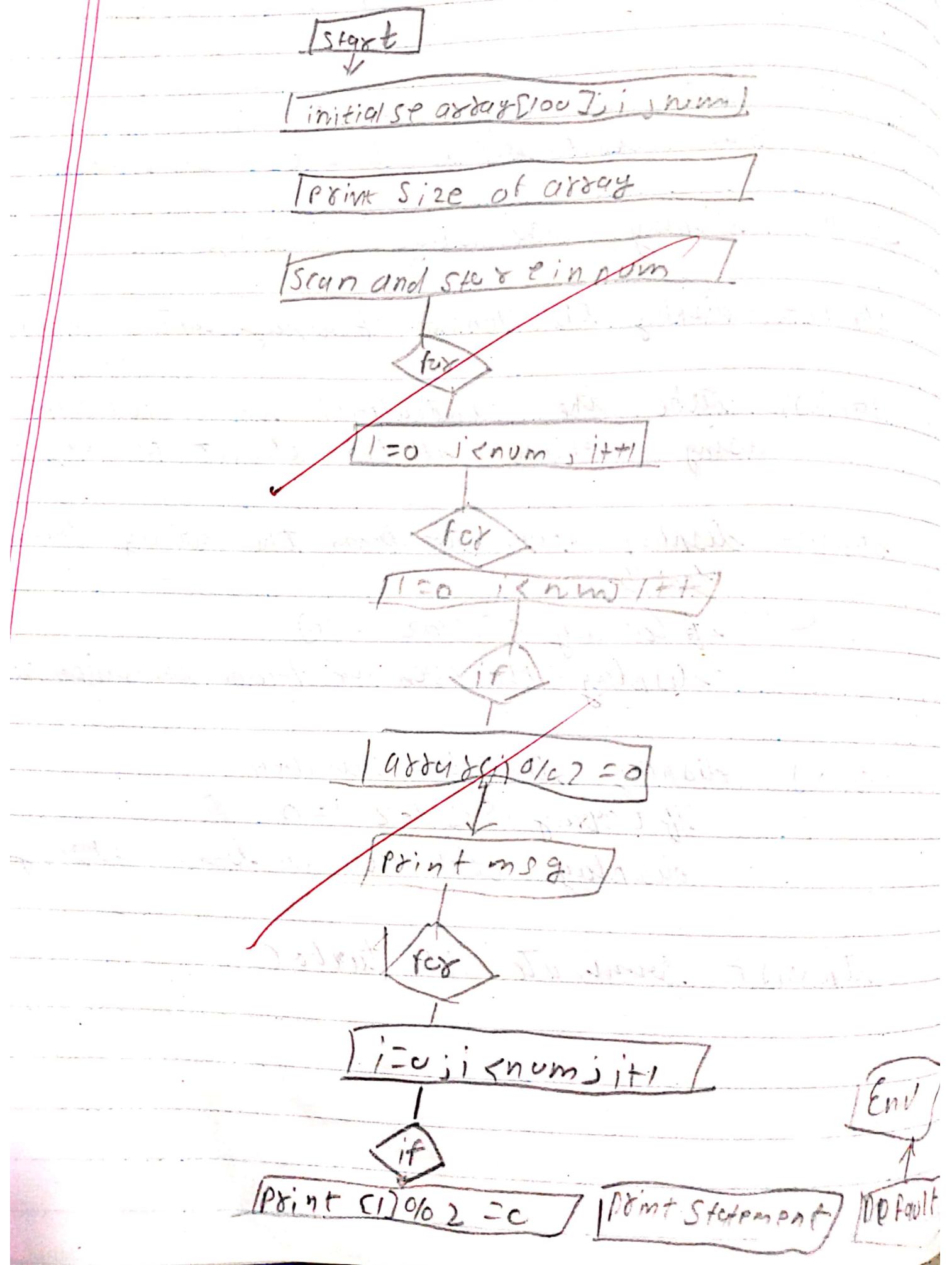
Step VI : display the odd numbers

if (array[i] % 2 != 0)

display odd number from array

Step VII : terminate the turbo C

Flowchart B:



output B

Enter the size of array:

5

34

Enter the element of array

35

5

7678

123

75

Even no in the array: 3 & 7 & 78

Odd no in the array: 51, 22, 75

code C

```
#include <stdio.h>
#include <conio.h>
void main()
{
    int n, i;
    float num[100], sum = 0.0, avg;
    clrscr();
    printf ("Enter the no of elements");
    scanf ("%d", &n);
    for (i=0; i<n; i++)
    {
        printf ("Enter no %d", i+1);
        scanf ("%f", &num[i]);
        sum = sum + num[i];
    }
    avg = sum/n;
    printf ("average = %f", avg);
    printf ("sum = %f", sum);
    getch();
}
```

algorithm

Step 1:- start turbo C application

Step 2:- initialise the int & variable $a[100]$, num, and float variable sum=0 and average

Step 3:- start the user for the length (<100) and store the value using scanf.

Step 4:- put avg = sum/num

Step 5:- print the value of sum & avg

Step 6:- terminate the program source code output \rightarrow previous rule.

Conclusion

Thus, we have executed the program successfully

Flowchart:

[start]

[initialise n, i]

[float num[100] sum=0.0, i=0]

for

[i=0; i<n; i++]

[Print Statement]

[sum = sum + num[i]]

[avg = sum/n]

[Print Statement]

[default statement]

[end]

Coding a

```
#include <stdio.h>
#include <conio.h>
void main()
```

{

```
int f:
```

```
clrscr();
```

```
printf("Enter a number to find the factorial of ");
```

```
scanf("%d", &f);
```

~~```
printf("%d", fact(f));
```~~~~```
getch();
```~~

3

~~```
int fact(int n)
```~~2  

```
if (n >= 1)
```

{

~~```
return n * fact(n - 1);
```~~

3

```
else
```

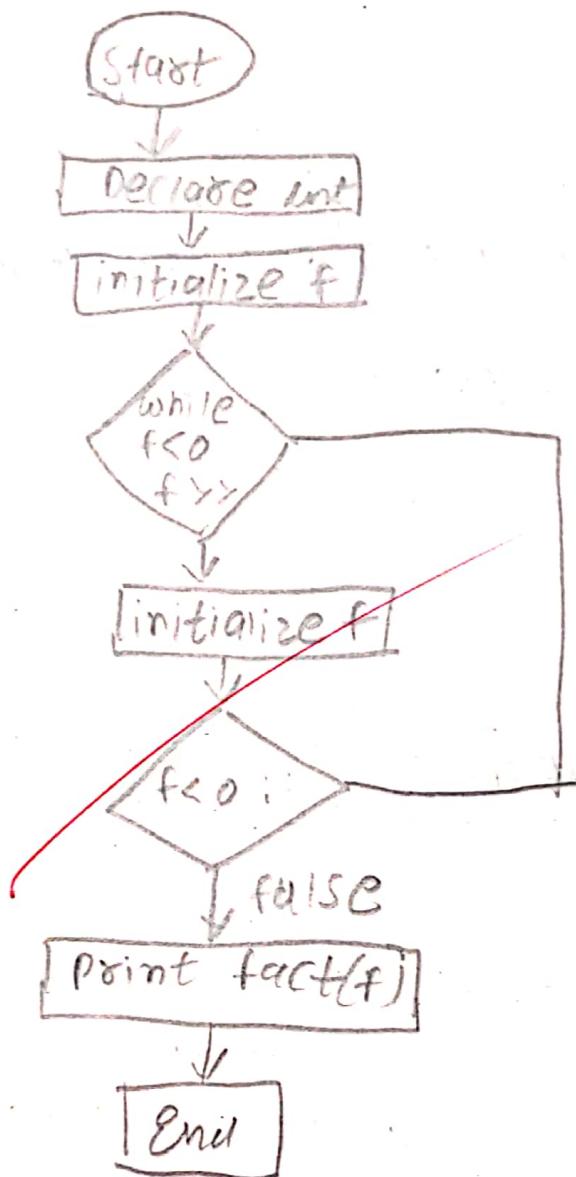
{
~~```
return 1;
```~~

3

3

38  
output

Enter a number to find the factorial of 5  
120



write C program to find factorial of a number using recursion  
algorithm

step 1:- start turbo c

step 2:- declare the int variable factorial

step 3:- use if conditional statement and return factorial and  
use else statement for returning

step 4:- declare int variable n,a

step 5:- use print statement for taking input from user

step 6:- factorial of n is a

step 7:- use default statement

step 8:- display the output

step 9:- terminate the program

B)

aim :- C program to show the use of gets() function  
algorithm

step 1:- start turbo c

step 2:- initialize char ch

step 3:- use getch function for ch

step 4:- use getche function for che

step 5:- use greater function

step 6:- terminate the function

```

using b
#include < stdio.h>
#include < conio.h>
void main()
{
 char ch;
 clrscr();
 printf("n press any key to continue");
 getch();
 printf("n enter an alphabet:");
 ch = getch();
 printf("n enter continue Y/N");
 getch();
}

```

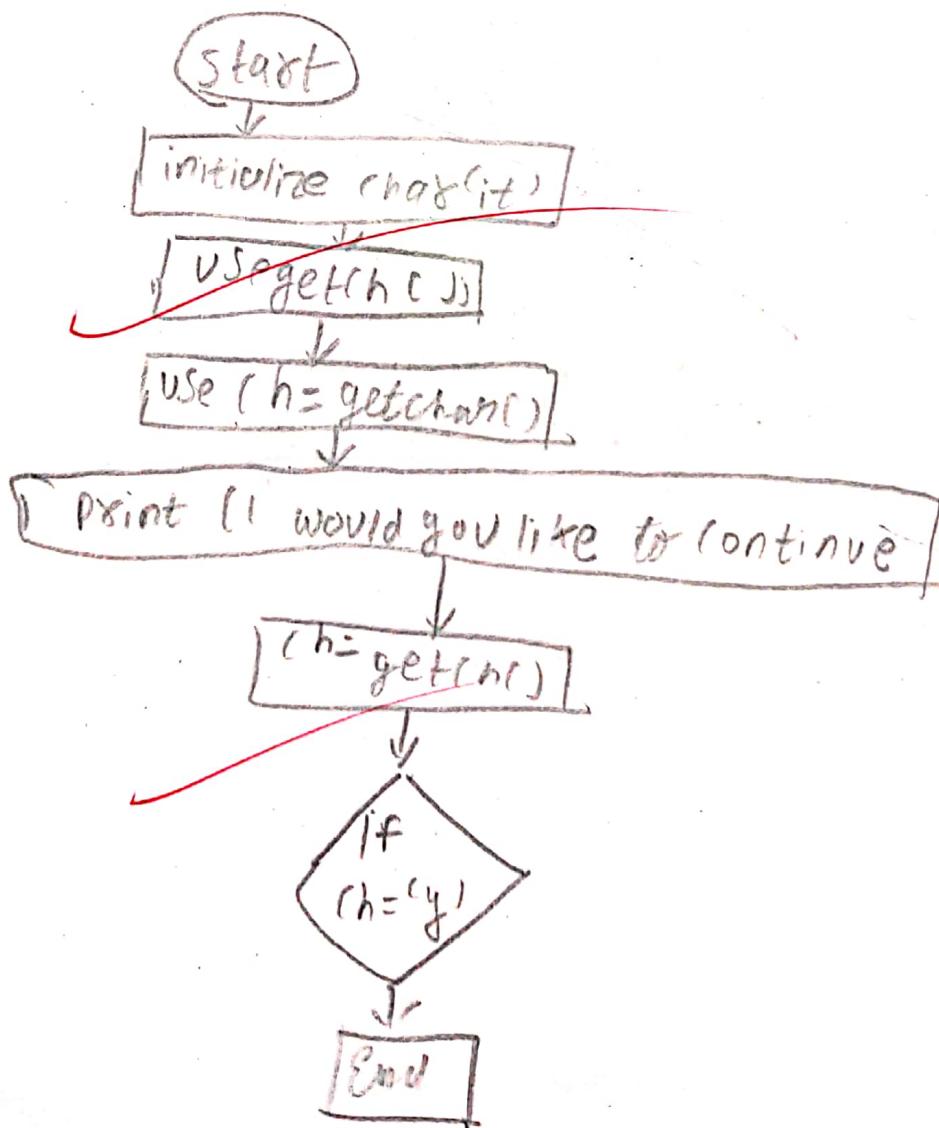
3

Output

press any key to continue

Enter an alphabet=a

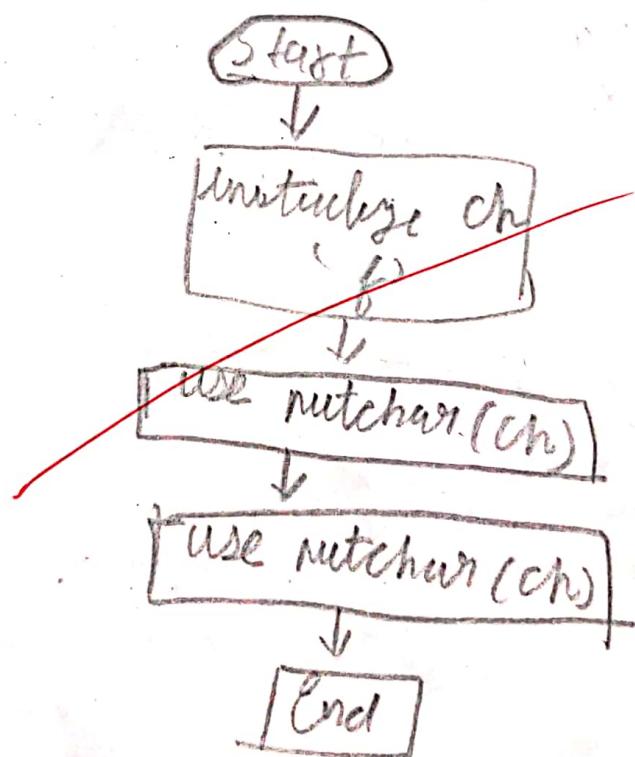
continue Y/N y



## Ques Coding C

```
#include <stdio.h>
#include <conio.h>
void main()
{
 char ch; (for)
 clrscr();
 getch(ch);
 getch(ch);
 getch();
}
```

c) output  
by



(1) aim: C Program to show the use of alphabet function

step 1: start turbo c application

step 2: initialize char ch as b

step 3: use getch() function

step 4: use getch() function

step 5: use getch() function

step 6: terminate the program

Conclusion: Thus we have executed program successfully

## Practical note

Step 1:- pointers

algorithm

Step 1 start the Turbo C application

Step 2 declare a function prototype with two integer pointer as argument before entering main()

Step 3 declare two variable and accept their values from the user next the repetitive value using scanf()

Step 4 pair the address of the variable as argument for the function

Step 5 print the replace value of the variable

Step 6 use the tree searching algorithm in the function definition but instead of normal variable use

Ques

```
#include <stdio.h>
#include <conio.h> 40
void swap (int *m, int*n)
void main()
{
 int x,y;
 clrscr();
 printf ("enter the two number to be swapped:");
 scanf ("%d %d", &x, &y);
 printf ("The value before swapping are %d and %d
 respectively (%d, %d);", x, y);
 getch();
}
```

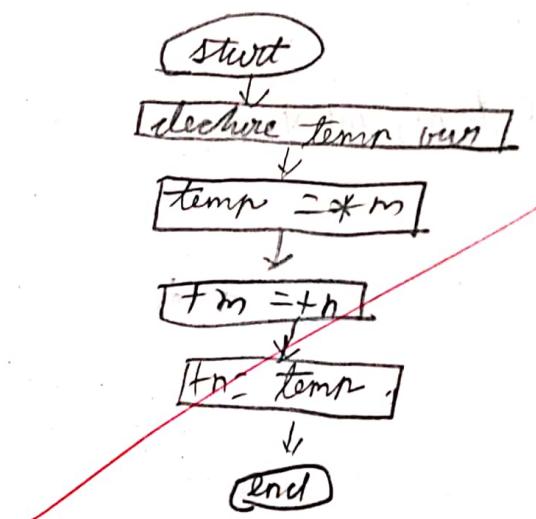
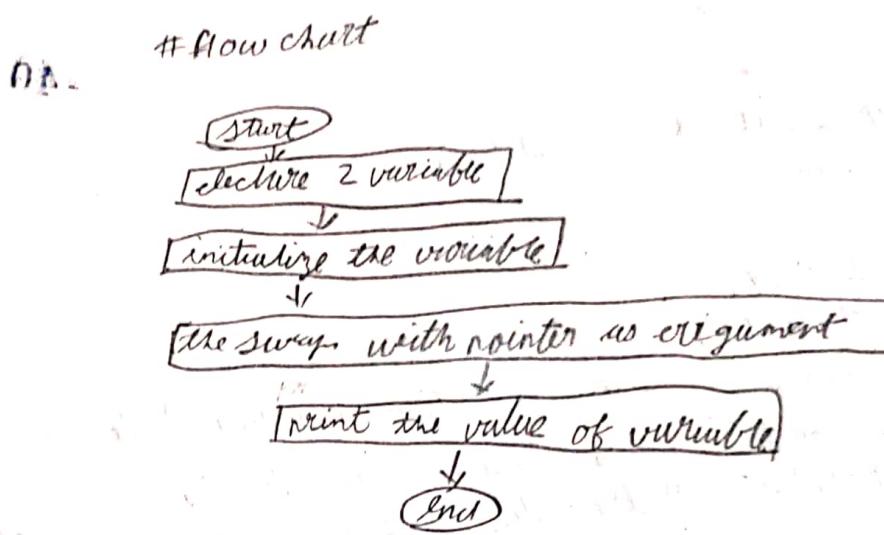
3

```
void swap (int *m, int*n)
```

E

```
+temp = *m;
*m = *n;
*n = +temp;
```

3



output

enter 2 no to be swapped: 29  
99

the no before swapping are 29 and 99  
the no after swapping are 99 and 29.

## 3.1 A

(1)

sorting of array using pointers

Algorithm

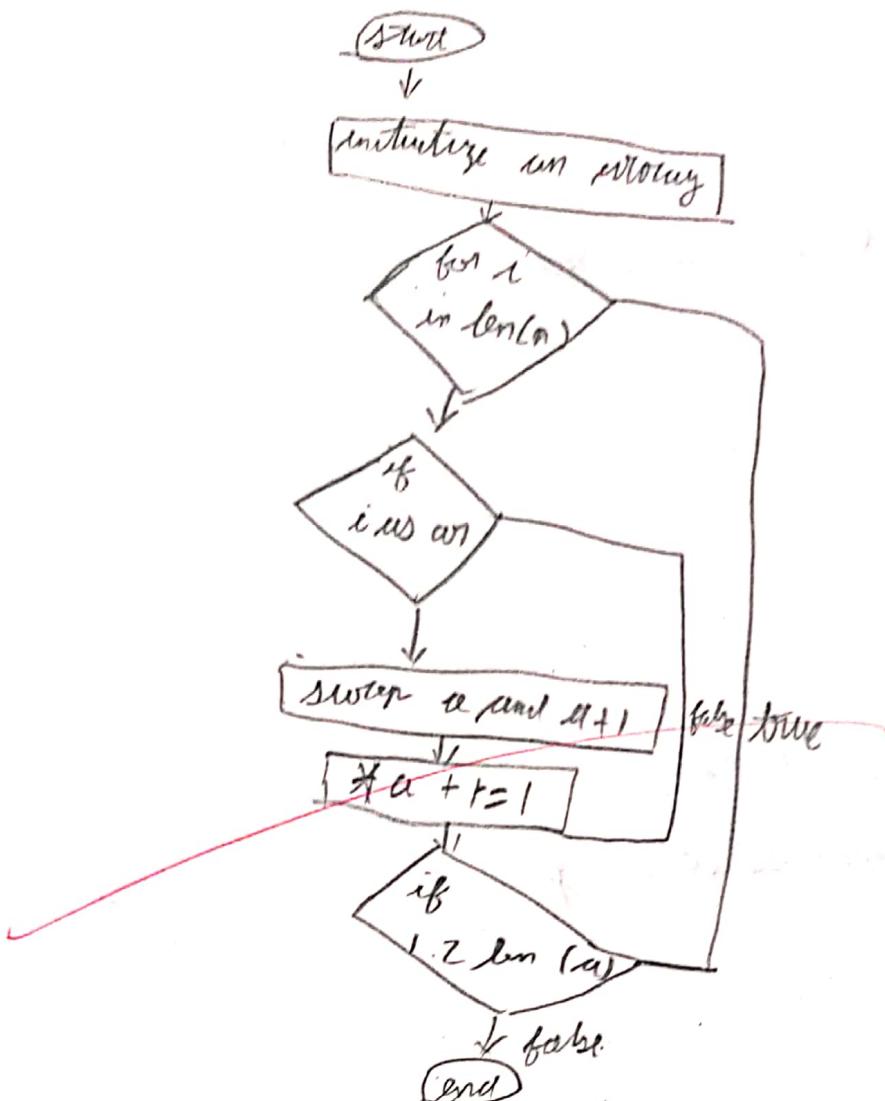
Step 1:- initialize an integer array and temp variable

Step 2:- run a nested loop of i=0 to len(a) and j=i+1 to len(a)-1

Step 3:- get arr[i] swap the two values using basic swapping logic

Step 4:- print the swapped array

Step 5:- terminate the program



SA

output

insert element into the array

1  
6  
7  
8  
2  
9  
10  
12

{1, 2, 8, 6, 7, 8, 9, 10, 12}

is the sorted array

source code :-

```
void sort (int n, int *a)
```

```
#include <stdio.h>
```

```
#include <conio.h>
```

```
void main ()
```

2

```
int a[10]; i; temp;
```

```
clrscr();
```

```
for (i=0; i<10; i++)
```

3

```
for (j=0; j<i; j++)
```

ε

```
if (*a > *a + 1)
```

ε

~~temp = \*a + 1;~~

\*a + 1 = \*a j

\*a = temp;

3

3

Next of C ("0%") is the sorted array }; a);

getch();

3

8A

iii)

aim :- one dimensional array representation using pointer

algo

Step 1:- open Turbo C++ program

Step 2:- initialize an integer array and a variable

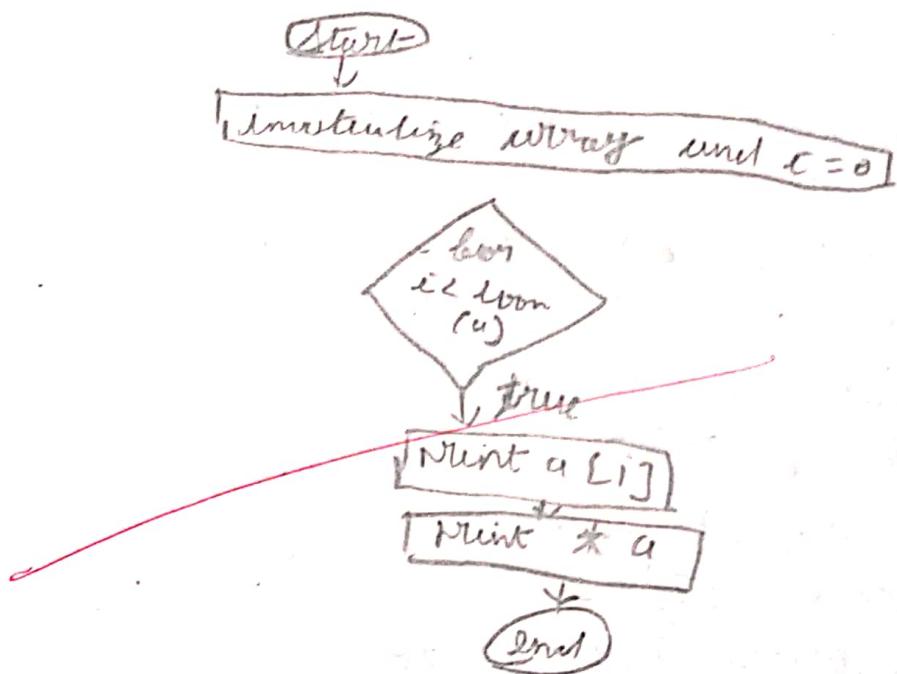
Step 3:- run a while loop with  $i=0$  to length of array

Step 4:- print the total data of the array and then use pointer to print array locator

Step 5:- terminate the program

#### 4 flowchart

44



AB  
output

the address of  $a[0] = 65518$

the value of  $a[0] = 7$

the address of  $a[1] = 65518$

the value of  $a[1] = 8$

the address of  $a[2] = 65520$

the value of  $a[2] = 4$

the address of  $a[3] = 65522$

the value of  $a[3] = 5$

the address of  $a[4] = 65524$

the value of  $a[4] = 9$

```
include < stdio.h>
include < conio.h>
void main()
```

2

```
int a[5] = { 7, 8, 9, 8, 23 };
clrscr();
int *ptr;
int i=0;
ptr = &a[0];
while (*ptr != 100);
```

3

```
printf ("In the address of a[0] is %u\n", ptr);
printf ("In the address of a[100] is %u\n", ptr+100);
ptr++;
i++;
```

3

3  
 getch();

Conclusion

we have successfully executed the program

Nahmodi

P.A

### Practical 8

Q) Aim :- Create a simple structure named as student that holds following variable : id (orpa) name

algorithm

Step 1:- start turbo C application

Step 2:- declare the structure variable as struct student

Step 3:- initialize the struct student with 3 more variable inside it as 'int id', 'float cgpa' (char name[6])

Step 4:- now inside void main() define struct student s1:

Step 5:- print the detail of the student such as id, cgpa, name

Step 6:- terminate the program

Start

declare structured variable  
as struct student

inside struct student  
initialize 3 more variable

Open void main

define struct student

int the values  
of student

End

Output :- enter id CGPA and name of student  
id=1  
CGPA = 8.333  
name= Yash

source code:

struct student

E

```
int id;
float CGPA;
char name[10];
3;
```

void main()

E

```
struct student s1;
```

```
printf("Enter id CGPA and name of student");
scanf("%d %f %s", &s1.id, &s1.CGPA, s1.name);
printf("In id = %d", s1.id);
printf("In CGPA = %f", s1.CGPA);
printf("In name = %s", s1.name);
```

B

ans :- war or which will demonstrate use of  
structure and function

algorithms

Step 1:- start turbo C application

Step 2:- declare the structured variable as  
struct student

Step 3:- initialize the struct student with two  
more variable (int roll and char name [10])

Step 4:- now inside void display and void main  
declare it int i, struct student [10]

Step 5:- use the 'for' loop for entering details to  
student upto 2 student and not more than that

Step 6:- print the detail of student

Step 7:- open void display again and print the value  
using for condition and printf

Step 8:- terminate the program

(start)

↓  
declare struct variable

48

initialize 2 variable inside struct

open std display and void main

declare int struct student { };

for  
(i=0; i<2;  
i++)

Point and Scan  
detail of student

open std display  
and print values

for i=0  
i<2 i++

Print final value

end

output

enter detail of 2 student

enter roll and name 22 om

enter roll and name 33 prakash

xxx x x x xxx

Roll = 22 name = om

Roll = 33 name prakash

Ques

```
#include <stdio.h>
struct student
```

{

```
int roll
```

```
char name[10];
```

3;

```
void display (struct student s1[10]);
void main ()
```

{

```
int i;
```

```
struct student s1[10];
```

```
clrscr();
```

```
printf ("In Enter detail of 2 student");
```

```
for (i=0; i<2; i++)
```

{

```
printf ("In enter roll and name");
```

```
scanf ("%d %s", &s1[i].roll, s1[i].name);
```

3

```
display (s1);
```

```
getch();
```

{

```
void display (struct student s1[10])
```

{

```
int i;
```

```
printf ("In ... [n]");
```

```
for (i=0; i<2; i++)
```

```
printf ("In Roll = %d ,t name = %s", s1[i].roll,
```

3

E4

- 1 aim : create union to store student in the form of roll no stud name dir percentage contact no ins, the date and print in street in a command algorithm
- 2 start turbo C++ application
- 3 define the union as student (union student)
- 4 initialize the union statement student with 5 variable namely rollno stud name dir percentage contact no.
- 5 now inside void main function define union student
- 6 print the values of the student
- 7 terminate the program

start

define union student

↓  
initializes variable  
inside it

write void main  
define union student

↓  
print the values  
of student

↓  
end

08

Output

name = jyman

Rollno = 18

percentage = 10

Contact no = 08520110,

div = A

# code

```
#include < stdio.h>
#include < conio.h>
union student
```

2

```
int roll;
char studname[10];
char div[5];
float percentage;
long contact_no;
```

3;

void main()

4

union student s1;

class90;

s1.name = "ayuan"

printf("name=%s", s1.studname)

s1.roll=55;

printf("rollno=%d", s1.roll);

s1.div = "B"

printf("div = %s", s1.div);

s = percentage = 85

printf("percentage = ", s1.percentage)

s = contact no = 87520 + 811

printf(contact = %d ; s1.contact\_no);

5

## practical 9

aim:- want to copy one string into another string

algorithm

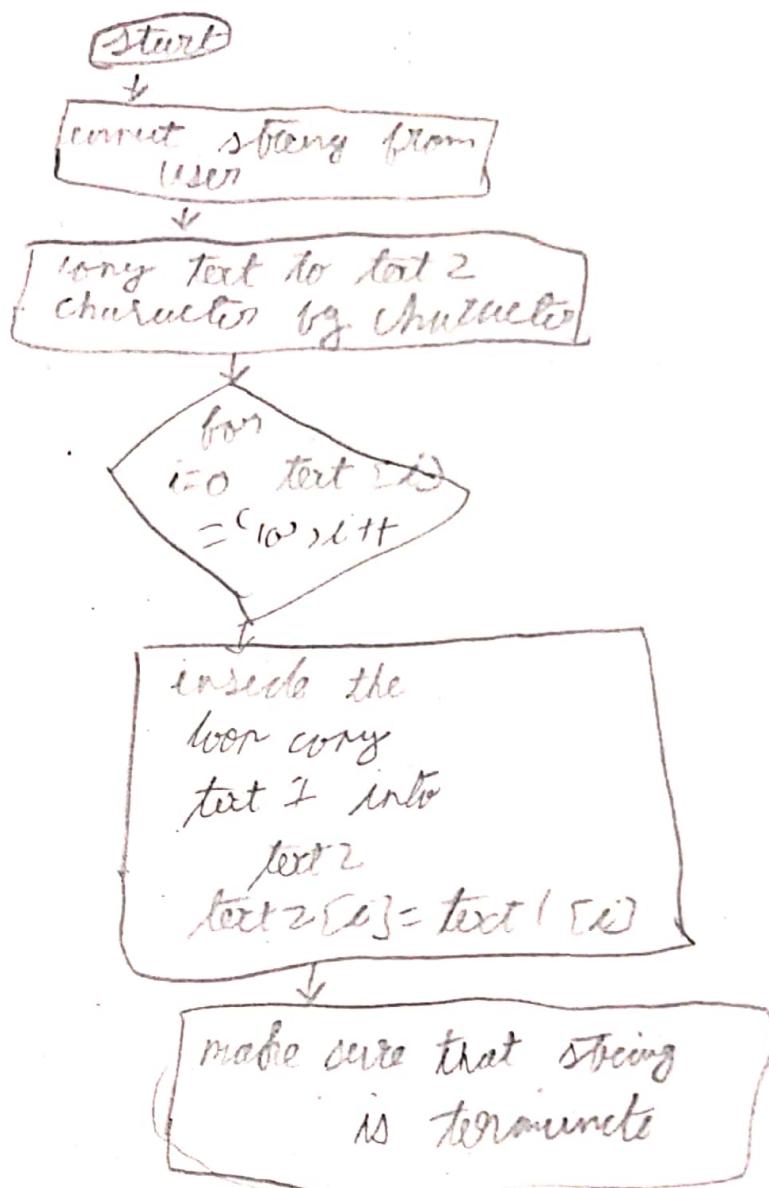
Step 1 :- input string from user and store it to some variable say text 1

Step 2 :- declare another variable to store copy of first string in text 2

Step 3 :- Run a loop from 0 to end of string the loop structure should be like  
 $\text{for } (i=0; \text{text}2[i] \neq '\text{\texttt{\\}}'; i++)$

Step 4 :- inside the loop for each character in text1 to text2 say  $\text{text}2[i] = \text{text}1[i]$

Step 5 :- finally after loop make sure the content string with null character i.e.  $\text{text}2[i] = '\text{\texttt{\\}}'$



25

Output

Enter any string there are 7 days in a week  
first string there are 7 day in a week  
first string there are 7 day in a week  
total character 20

Code

# include <stdio.h>  
 # define max-size 100

int main()

{

char text1 [max-size]

char text2 [max-size]

int()

printf ("enter any string ")

gets (text1)

for (i=0; text1[i] != '\0'; i++)

{

text2[i] = text1[i];

}

text2[i] = '\0'

printf (" first string cong %s\n", text1);

printf (" first string = %s\n", text2);

printf (" character copied = %d\n", i);

return 0

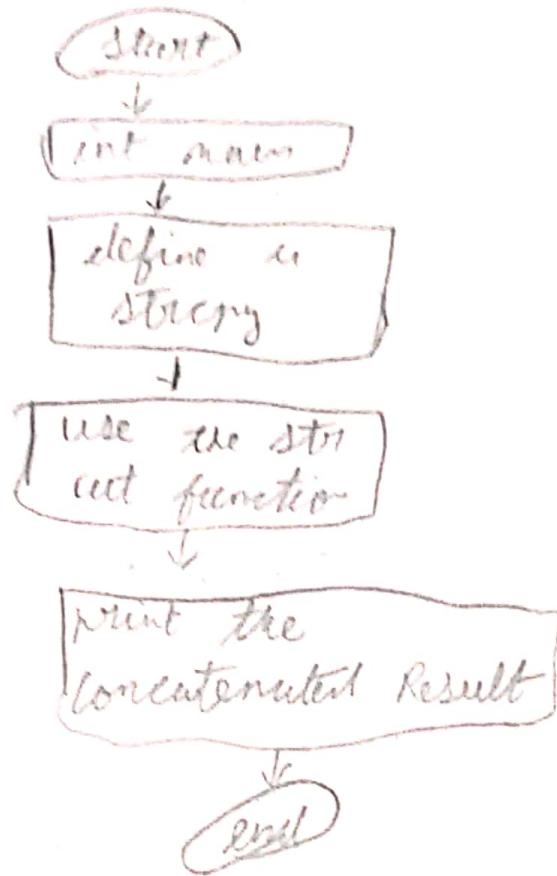
3

Q:- write a program which will determine the size of string

strcat: the strcat() function will append a copy of the source string to the end of destination string.

String the strcat function takes 2 arguments  
1) dest 2) src

the strcat function returns a pointer  
(where the resulting concatenated string resides)



Ed

adult Retul is over 18 years old

write :  
# include < stdio.h>  
# include < conio.h>  
int main (int argc (const char \* char examples  
E

strcpy (example , "Rahul")

strcat (example ) "is 18 ")

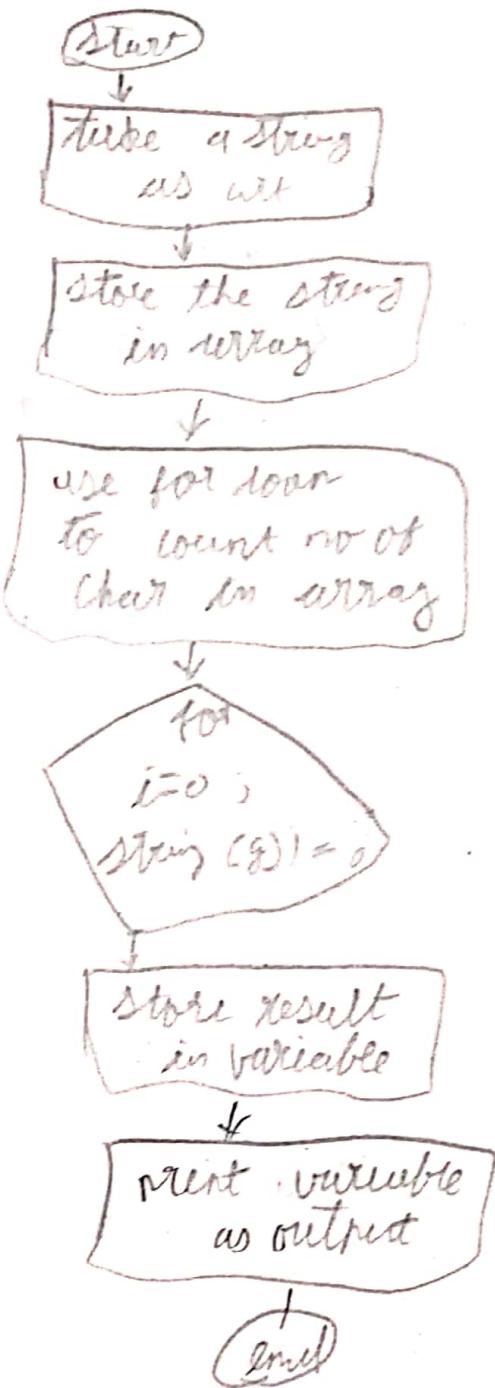
strcat (examples) "years old")

printf (" %d\n ", example)

Aim: write a program which displays the length of a string without using string function

algorithms

- 1 take a string as input and store it in the array
- 2 using for loop count the number of character in the array and store the result in the variable
- 3 print the variable as output



113 output

enter a string:

it is a cold night

the length of str is the no of character in it  
So the length of it is a cold night = 18

code

```
#include <stdio.h>
void main()
{
 char string[50];
 int i, length = 0;
 printf ("enter a string\n");
 gets (string);
 for (i=0, string[i] != '\0'; i++)
 {
 length++;
 }
}
```

printf "the len of str is the no of student n=  
 printf "so the len of str = %d \n", string

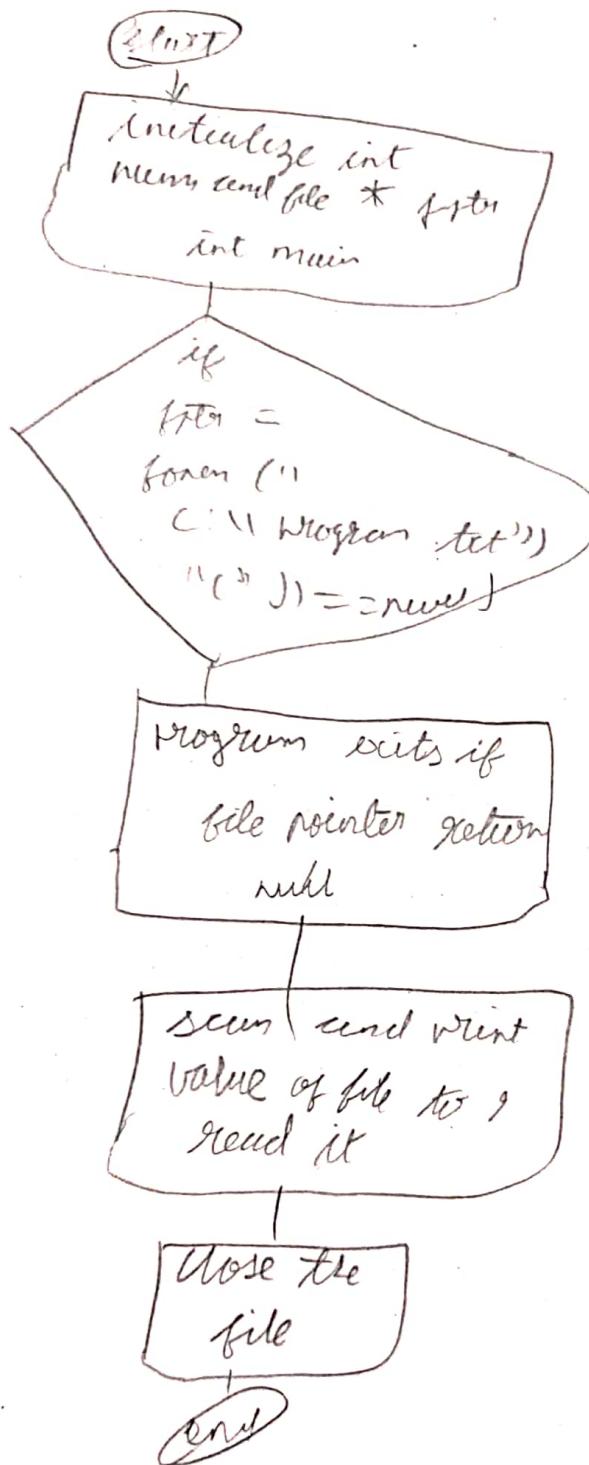
## practical 10

aim :- program for file open file read file close

functions:- open a existing file or create a new file  
for use

f.read () reads a record from a file

f.close() closes a file



8G

output

values are 87  
88  
89  
90

code

```
#include <stdio.h>
#include <conio.h>

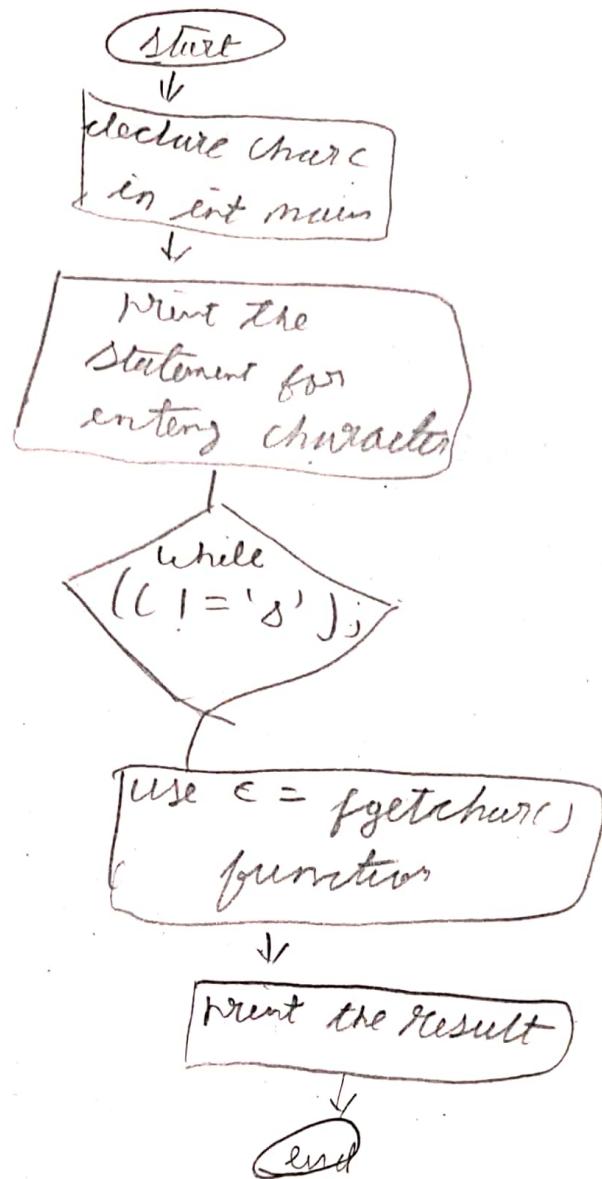
int main()
{
 int num;
 file * fptr;
 if ((fptr = fopen ("C:\\\\program.txt", "t")) == NULL)
 {
 printf("error : opening file");
 exit(0);
 }
 fscanf(fptr, "%d", &num);
 printf("value we - %d", num);
 fclose(fptr);
 return 0;
}
```

6

Ques : What are fgets(), fgetchar(), fgetchar() function.

Algorithm description

- fgetchar is a file handling function.
- it is used to read a single character from keyboard input.



08

output enter some character enter \$ to exit

A

entered character is : A

B

entered character is : B

C

entered character is : \$

code

```
include < stdio.h >
include < ctype.h >
```

```
int main ()
```

2

char c

```
printf ("enter some character enter to exit)
```

```
while (c != '\n');
```

3

```
(= fgetchar();
```

```
printf ("\\n entered character is: ");
```

```
putchar (r);
```

```
printf ("\\n");
```

3

return 0

3

fgetc() used to read a character from a file  
Read single character at a time in a program  
we use fgetc() function fget(p)  
where fp = file pointer

Code

```
#include <stdio.h>
int main()
```

{

```
file *fp;
char c;
```

printf("opening file test.c in read mode")

```
fp = fopen ("test.c", "r");
```

```
if (fp == NULL)
```

```
{ printf("could not open file test.c");
```

```
return 1;
```

```
}
```

```
printf("Reading the file test.c");
```

```
while (c)
```

{

```
c = fgetc(fp);
```

```
if (c == 'B')
```

```
break;
```

```
wprintf("%c", c);
```

```
}
```

output

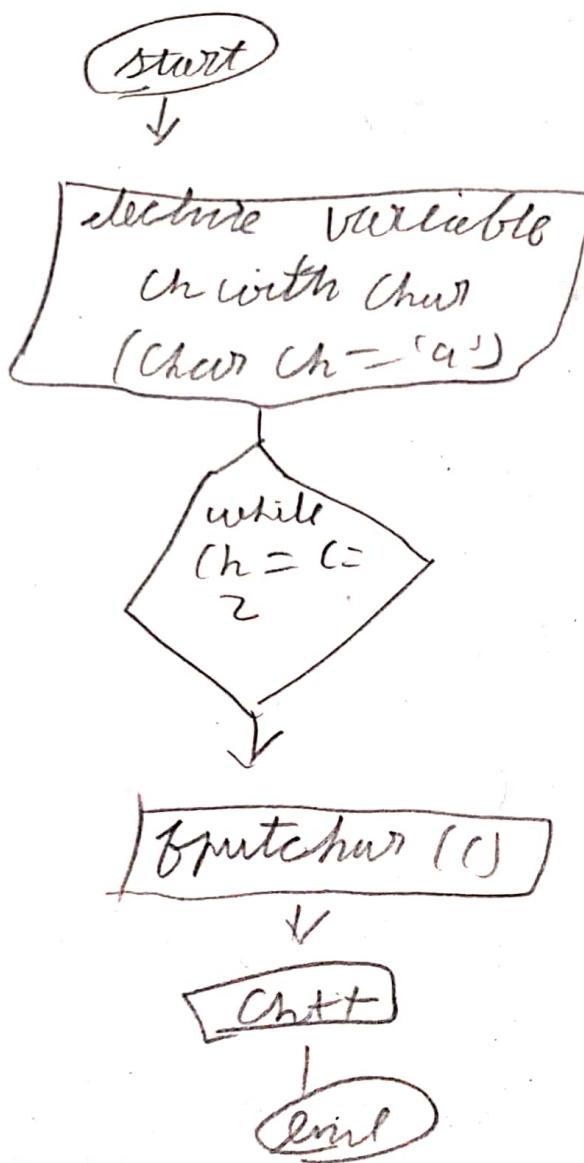
opening the file test.c in read mode

62

Reading the file test

hi how are you

Closing the file



frntchar()

→ file handling functions inc  
Used to write a character  
on standard output i.e. screen  
frntchar() function is  
equivalent to puts() function  
where char is a character variable

code:

```
include < stdio.h >
int main()
{
 char ch = 'a'
 while (ch <= 'z')
 {
 frntchar ((ch));
 ch++;
 }
 return 0
}
```

output :- abcdefghijklmnongrstuvwxyz