

```

#include <stdio.h>
#include <conio.h>
void main()
{
    int roll_no;
    char name[20], mobile_no[10];
    float percentage;
    clrscr();
    printf("enter student's name: \n");
    scanf("%s", &name);
    printf("enter student's roll no: \n");
    scanf("%d", &roll_no);
    printf("enter student's mobile no: \n");
    scanf("%s", &mobile_no);
    printf("enter student's percentage \n");
    scanf("%f", &percentage);
    printf("Student's name: %s\n", name);
    printf("Student's roll no: %d\n", roll_no);
    printf("Student's mobile no: %s\n", mobile_no);
    printf("Student's percentage: %f\n", percentage);
    getch();
}

```

3

Practical - 1

29

Aim: Write a C program to understand basic datatypes & I/O.

Theory: Write a program to display student's name, roll no, mobile no. & percentage.

Algorithm.

Step-1:- Declare a variable name, roll no. as integer, also declare mobile no. as integer & percentage as float.

Step-2: Use printf function to print questions for user in order to give input.

Step-3: Use scanf function to read user's input and store in its allocated memory.

Step-4: Again use printf function to display the output.

b] Write a program in C to explain ternary operators.

Algorithm:

Step 1: Declare variables a, b & x as integers

Step 2: Store the value of a as 5 & store the value of b as 15

Step 3: Now to compare between who is greater use ternary operator x

Step 4: Use printf function to display output.

Conclusion: These programs help us in having better understanding about operators and expressions.

Normal

Output:

Enter first number: 3

Enter second number: 3

Addition of 3 and 3 is 6

Sub. of 3 and 3 is 0

Multiplication of 3 and 3 is 9

Division of 3 and 3 is 1

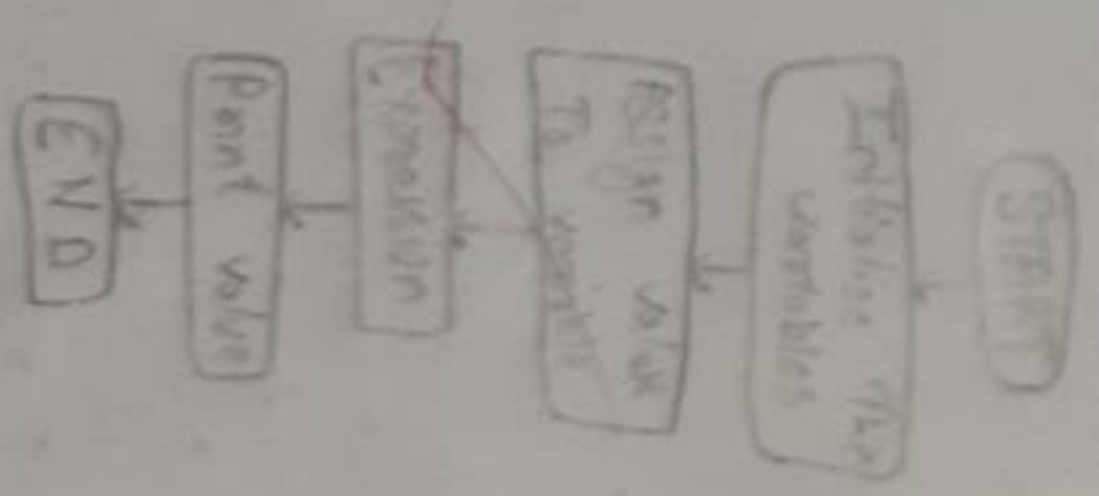
b] Code:

```
// ternary operator
#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();
}
```

3
Output

15

Flowchart:



Q) C++

// dynamic calculator

#include <stdio.h>

#include <conio.h>

void main()

{ int num1, num2;

float add, sub, mult, div;

clrscr();

printf("\nEnter first number:");

scanf("%d", &num1);

printf("\nEnter second number:");

scanf("%d", &num2);

add = num1 + num2;

sub = num1 - num2;

mult = num1 * num2;

div = num1 / num2;

printf("\n Addition of %d and %d is %d\n",

num1, num2, add);

printf("\n Subtraction of %d and %d is %d\n",

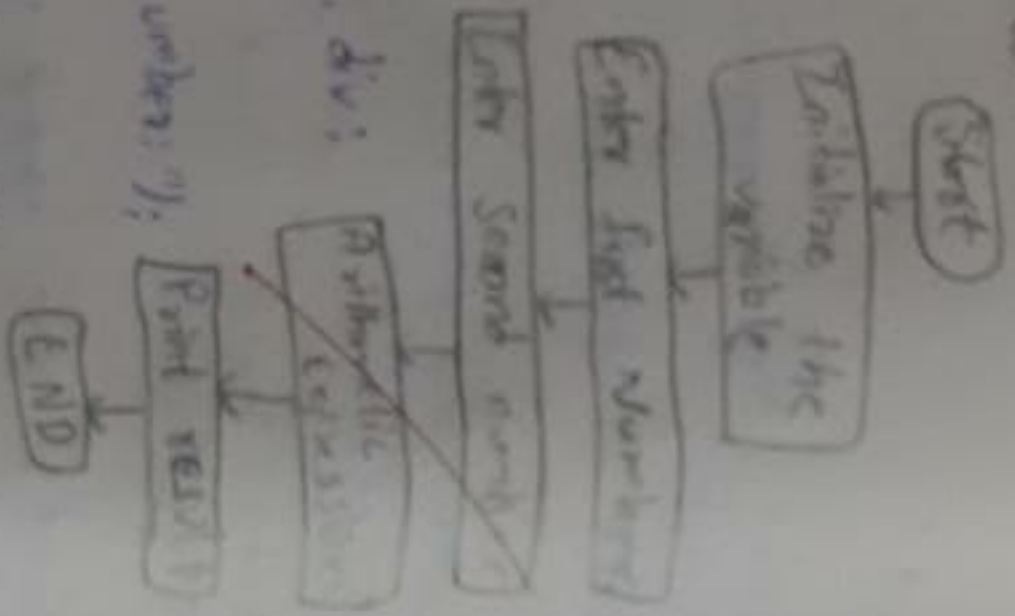
num1, num2, sub);

printf("\n Multiplication of %d and %d is %d\n",

num1, num2, mult);

printf("\n Division of %d and %d is %d\n",

num1, num2, div);



Practical-2

Aim: Write a C program on operator and expression

Theory:

Q) Write a program to create a dynamic calculator.

Algorithm:

Step 1: Declare a variable name for first & second numbers as integer

Step 2: Now use scanf function to receive input from user.

Step 3: Now to add the numbers. Given by user use the expression num1 + num2.

Step 4: Now to subtract two numbers given by user use expression num1 - num2.

Step 5: Again use expression num1 * num2 if user wishes to multiply the two inputs.

Step 6: Use expression num1 / num2 if user wishes to divide the two inputs.

Step 7: Now use printf function to display output.

Conclusion: The given program gives use an idea about how also about how work in C and also about how we can give input & display output.

Output:

Enter student's name:

Nitesh

Enter student's roll no:

1885

Enter student's percentage:

59.08%

Enter student's Mobile no:

9999999999

Student's name: ~~Nitesh~~ Nitesh

Student's roll no.: 1885

Student's mobile no: 9999999999

Student's ~~percentage~~: 59.08%.

Output:

20 is greater than 15 & 12.

Conclusion: These programs help us to understand the working of if, if else & nested if statement.

Summary

Step 3: If condition is true the print 20 is less than 15 or if condition is false then print 20 is greater than 15.

Q] Write a program in C to explain nested if statement

Algorithm:

Step 1: Declare a variable as integer and assign value i.e. 20.

Step 2: Now use nested if logic to compare if given no. is greater or not.

Step 3: If first condition is true then go to second condition if second condition is also true then print 20 is greater than 15 & 12, if one of the conditions are not true then skip the part & print 20 is greater than 15 & 12.

```
else
{ printf("20 is greater than 15\n");
}
```

Output:
20 is greater than 15

Q] code:

```
// nested if
#include <stdio.h>
#include <conio.h>
void main()
{ int i = 20;
```

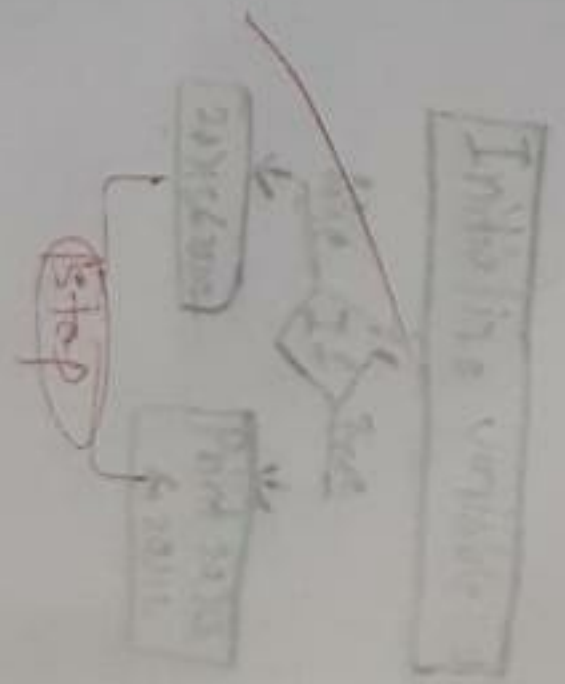
```
    clrscr();
    if (i < 15)
    {
```

```
        printf("20 is less than 15 & 12\n");
    }
```

```
    else
    {
```

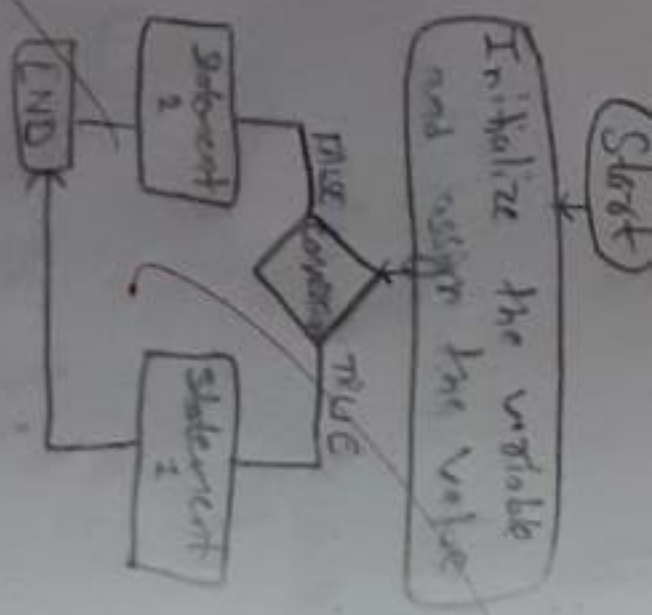
```
        printf("20 is greater than 15 & 12\n");
    }
```

```
    getch();
}
```



Q] code:

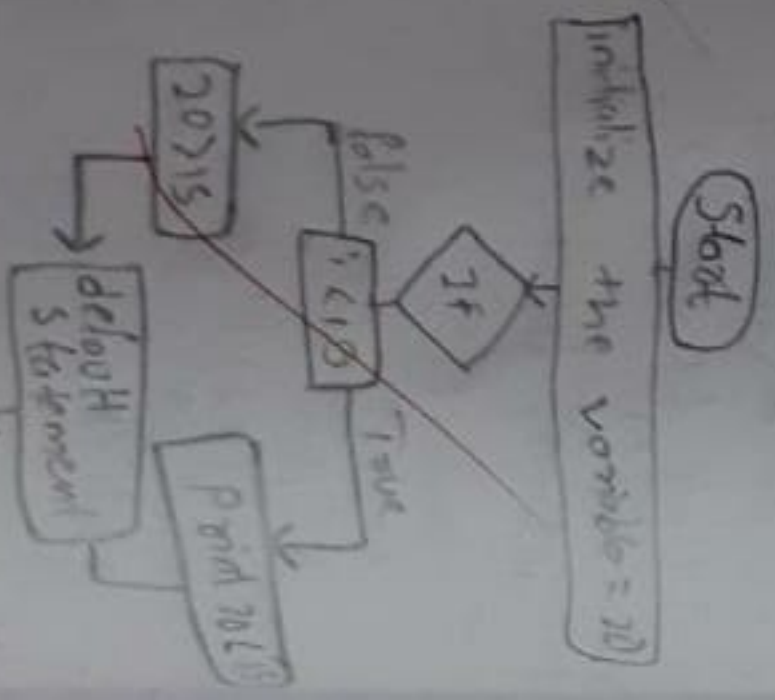
```
// if statement
#include <stdio.h>
#include <conio.h>
void main()
{
    int i = 10;
    clrscr();
    if (i > 15)
    {
        printf("10 is less than 15\n");
    }
    printf("I am not in if\n");
    getch();
}
```



Output
I am not in if.

Q] code:

```
// if else statement
#include <stdio.h>
#include <conio.h>
int i = 20;
clrscr();
if (i < 15)
{
    printf("20 is smaller than 15\n");
}
```



Practical-3

Aim: Write a program in C on decision statement (if, if else, nested if)

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 else if statement.
- Step 3: If the condition is true, print that 20 is less than 15 if condition is false skip the if statement & print "I am not 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 with its greater or not use if else conditional statement.


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

```
{
```

```
int n=0, n-2=1, n2, i, number;
```

```
clrscr();
```

```
printf("Enter number of elements \n");
```

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

```
printf("\n %d %d %d", n1, n2);
```

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

```
{
```

```
n3=n1+n2
```

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

```
n1=n2
```

```
n2=n3;
```

```
}
```

```
getch();
```

```
}
```

Output :-

Enter number of elements: 10

1 1 2 3 5 8 13 21 34 55



Ques - Write a C program of Fibonacci Series

Algorithm -

Step 1 - Start the Turbo C

Step 2 - Declare the variable n1, n2, n3, number;

Step 3 - Initialize the variable n1=0, n2=1, & number=0.

Step 4 - Enter the number terms of Fibonacci Series to be printed

Step 5 - Print first 2 terms of Series as n1=0 n2=1.

Step 6 - Use the do loop as per following step.

n3 = n1 + n2;

n1 = n2

n2 = n3

increases

Step 7 - Print the value of number.

Step 8 - END

Conclusion - Thus we have successfully created Fibonacci series in C.

Practical No. - 4

Aim: To display the prime numbers using for loop.

Algorithm:

Step 1 - Initialize a for loop from 1 to 50
let the count variable zero

Step 2 - Next another loop within the for loop & that goes to 2 to the last variable % 2.

Step 3 - Use the if condition statement to check whether the loop variable % 2 is 0. if the increment count variable by 1.

Step 4 - Come out of the second loop and check whether the count variable is 0. if the print the number.

Step 5 - Terminate the program.

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

```
{
    int n, i, a
```

```
    clrscr();
```

```
    printf("The prime numbers are:");
```

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

```
{
```

```
    a = 0;
```

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

```
{
```

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

```
{
```

```
    a++;
```

```
}
```

```
}
```

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

```
{
```

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

```
}
```

```
getch();
```

```
}
```

Output -

The prime numbers are: 2 3 5 7 11 13 17 19

Write a C program on following expression.

```

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

Algorithm:-

- Step 1 - Start the Turbo C.
- Step 2 - Declare the variable rows i, j, number
- Step 3 - Display the number of rows.
- Step 4 - Enter the for loop. $i = 1; i \leq \text{rows}; i++$
- Step 5 - (nested) nested for loop. $j = 1, j \leq i, j++$
- Step 6 - Display the number as per user ~~as~~ ~~order~~ the sequence from 1
- Step 7 - Increment number from 1
- Step 8 - Display the space

Conclusion: Thus, the we have successfully made the program as Turbo C using Turbo C.

```

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

```

{
    int n1=0, r, i, j;
    clrscr();
    printf("Enter the number of rows: ");
    scanf("%d", &r);
    printf("\n");
    for (i=0; i<=r; i++)
    {
        for (j=0; j<=i; j++)
        {
            n1++;
            printf("%d", n1);
        }
        printf("\n");
    }
    getch();
}
    
```

Output -

Enter the number of rows: 4

```

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



Source Code:

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

void main()
{
    int a [100], i, num;
    float sum = 0, avg;
    clrscr();
    printf("Enter no. of elements:");
    scanf("%d", &num);
    for (i = 0; i < num; i++)
    {
        printf("\n");
        scanf("%d", &a[i]);
        sum += a[i];
    }
    avg = sum / num;
    printf("In the sum of no. is %d", sum);
    getch();
}
```

Conclusion:-

Thus the program is successfully executed.

Output:

Enter the no. of element-10

2
3
6
5
10
1
2
1
7
11

The sum of the no. is 48.0000
and the avg is 4.80000.

```
#
printf("%d", array[i]);
```

```
getch();
```

Output :-

Enter the number of elements: 5

1, 4, 6, 8, 9

Even no: 4

6

8

Odd no: 1

9

Algorithm:

Step 1 - Start Turbo C application.

Step 2 - Initialize the int variable `a[100]`, `numi`, and `float` variable `sum=0` and `average`.

Step 3 - Start the user for the length `i < 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: → Next page.

Step 1 - Input the even and odd numbers to an array

Algorithm -

Step 1 - Create an array and define an array using loop.

Step 2 - Display the size of the array

Step 3 - Display the element of array entered by user.

Step 4 - Take the index $i=0$ to log using which all the elements in the array

Step 5 - Display even no. from array i to log (array $[i]$, $i \leq log$)
Display the even no. from the given array.

Step 6 - Display the odd number if (array $[i] \% 2 \neq 0$)
Display odd no. from array

Step 7 - Close or terminate the program.

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

```
{
    int array[100], i, n;
    clrscr();
```

```
    printf("Enter the size of the array:");
```

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

```
    printf("Enter the element of array\n");
```

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

```
{
    scanf("%d", &array[i]);
```

```
}
```

```
    printf("Even number in the array are:");
```

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

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

```
{
    printf("%d\n", array[i]);
```

```
}
```

```
    printf("\n odd number in the array are:");
```

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

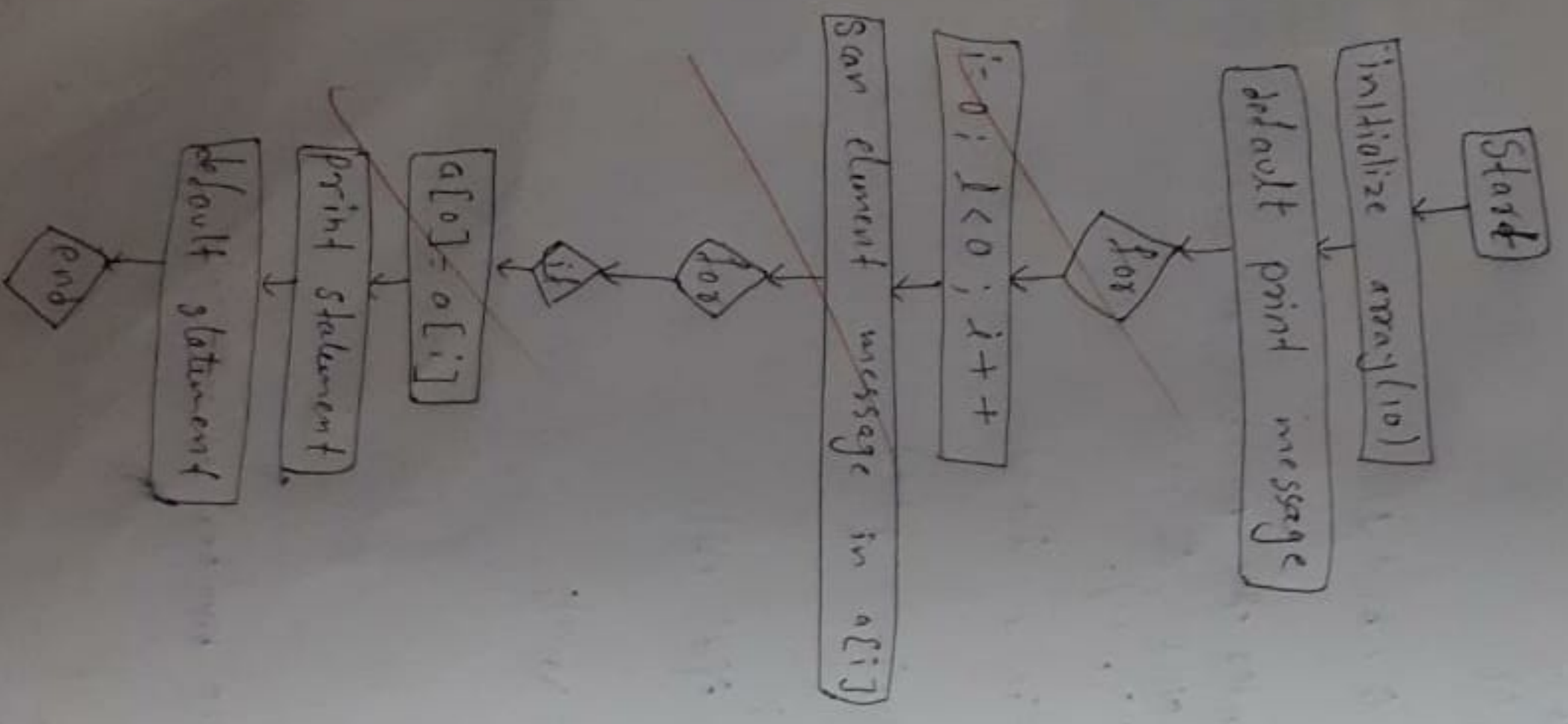
```
{
    if (array[i] % 2 != 0)
```

Portfolio-5

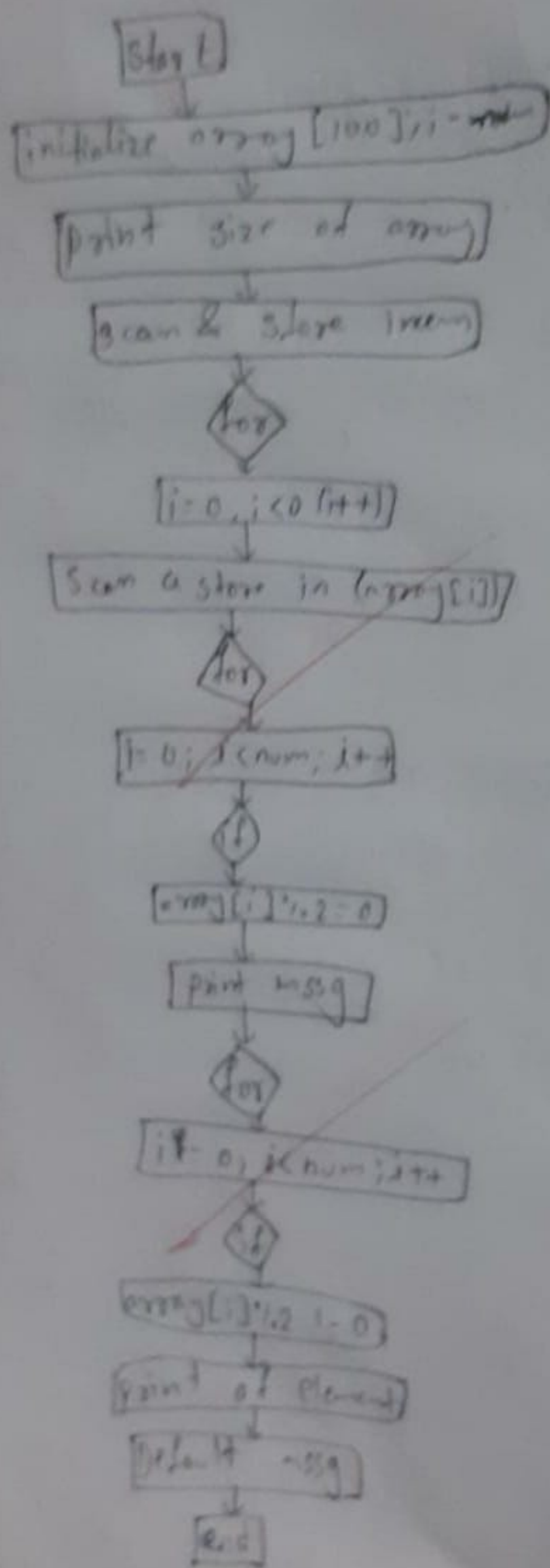
Aim - C program to find largest array number using array.

Algorithm:

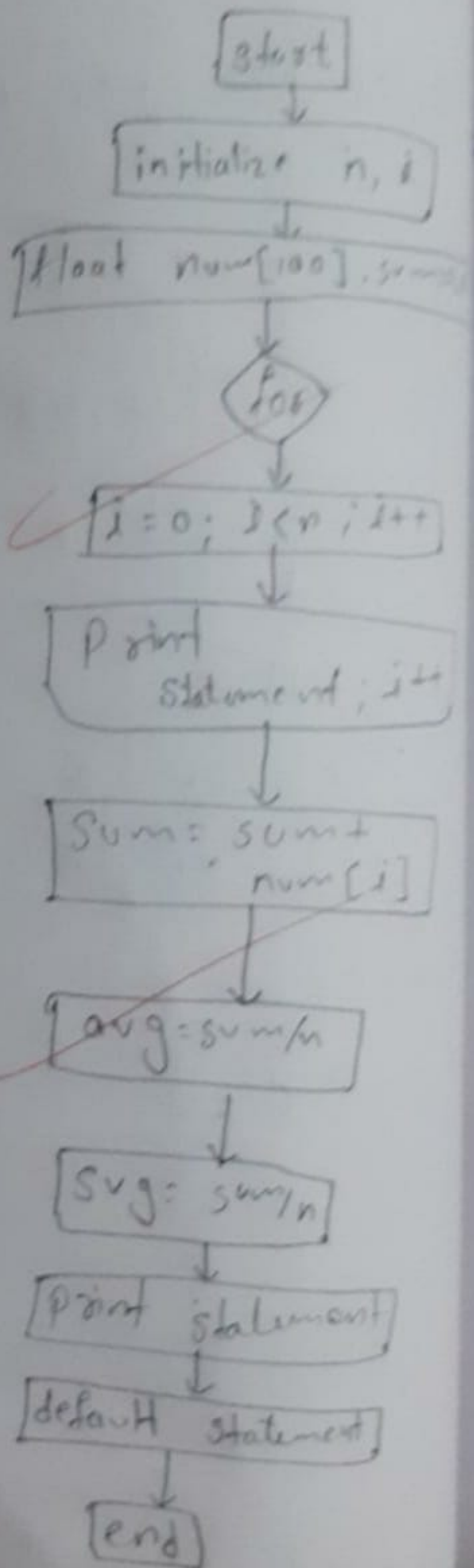
- Step 1 - Start turbo c application.
- Step 2 - Declare the variable in and integer array a[10]
- Step 3 - Enter the for loop at $i=0$, $i<10$ and use the value of a[i] till $i<10$. Exit the for loop.
- Step 4 - Enter the for loop at $i=0$, $i<10$ use if conditional statement to check if a[i] < a[i+1] if true, put a[i] = a[i+1]
- Step 5 - Run the above for loop for $i<10$, exit the loop.
- Step 6 - Terminate the program



Flowchart



Flowchart



P :

Source Code -

```
#include <stdio.h>
#include <conio.h>
int factorial (int n)
{
    if (n >= 1)
        return n factorial (n-1);
    else
        return 1;
}

void main()
{
    int n, a;
    printf ("Enter a Positive Integer ");
    scanf ("%d", & n);
    a = factorial (n);
    printf ("Factorial of %d is %d", n, a);
    getch();
}
```

Output -

Enter a Positive Integer: 5
Factorial of 5 is 120

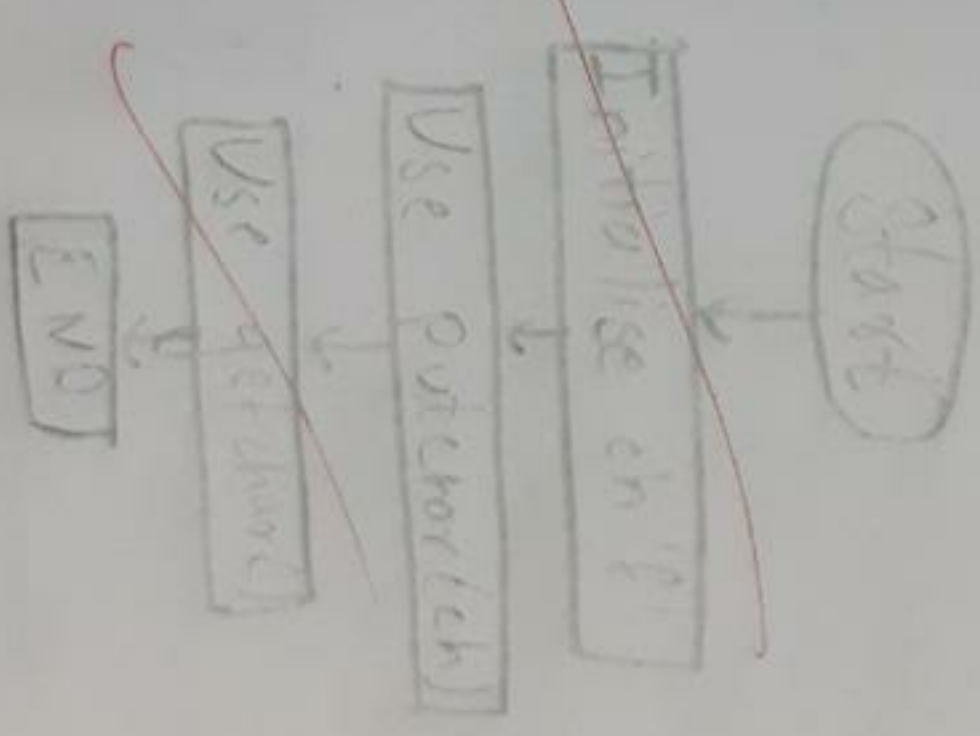
Source code :

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

void main()
{
    char ch;
    printf("\n Press any key to continue");
    getch();
    printf("\n Enter an alphabet");
    ch = getch();
    printf("\n Continue");
    getch();
}
```

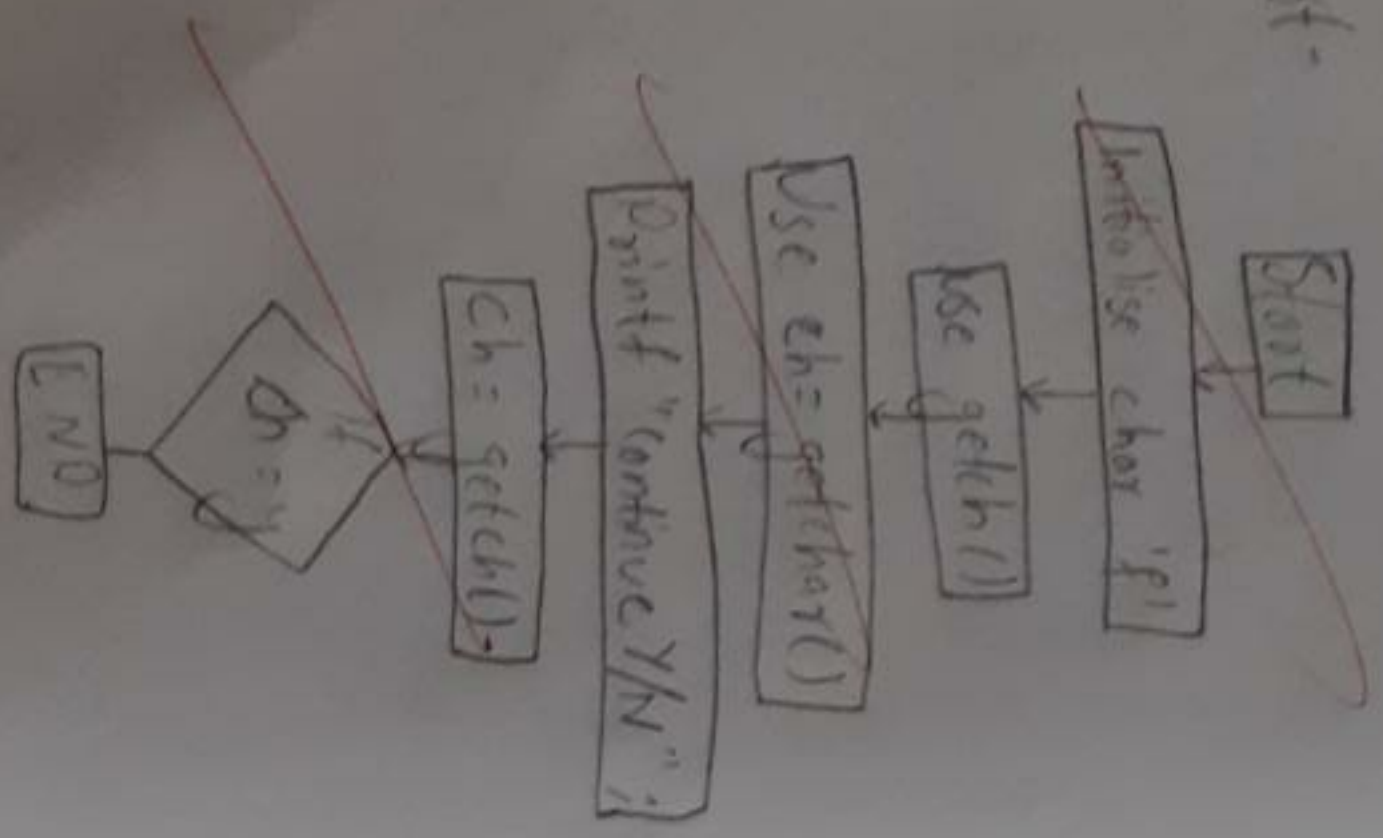
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Flow chart :-



Output
Press any key to continue
Enter any Alphabet
Continue Y/N -> N

Flowchart-



③ Aim - WAP which shows the use of getch function

Algorithm:-

Step 1 - Start Turbo C application.

Step 2 - Declare char variable ch.

Step 3 - Use printf statement of entering any key to continue

Step 4 - Use getch() function.

Step 5 - Use printf statement for entering alphabet

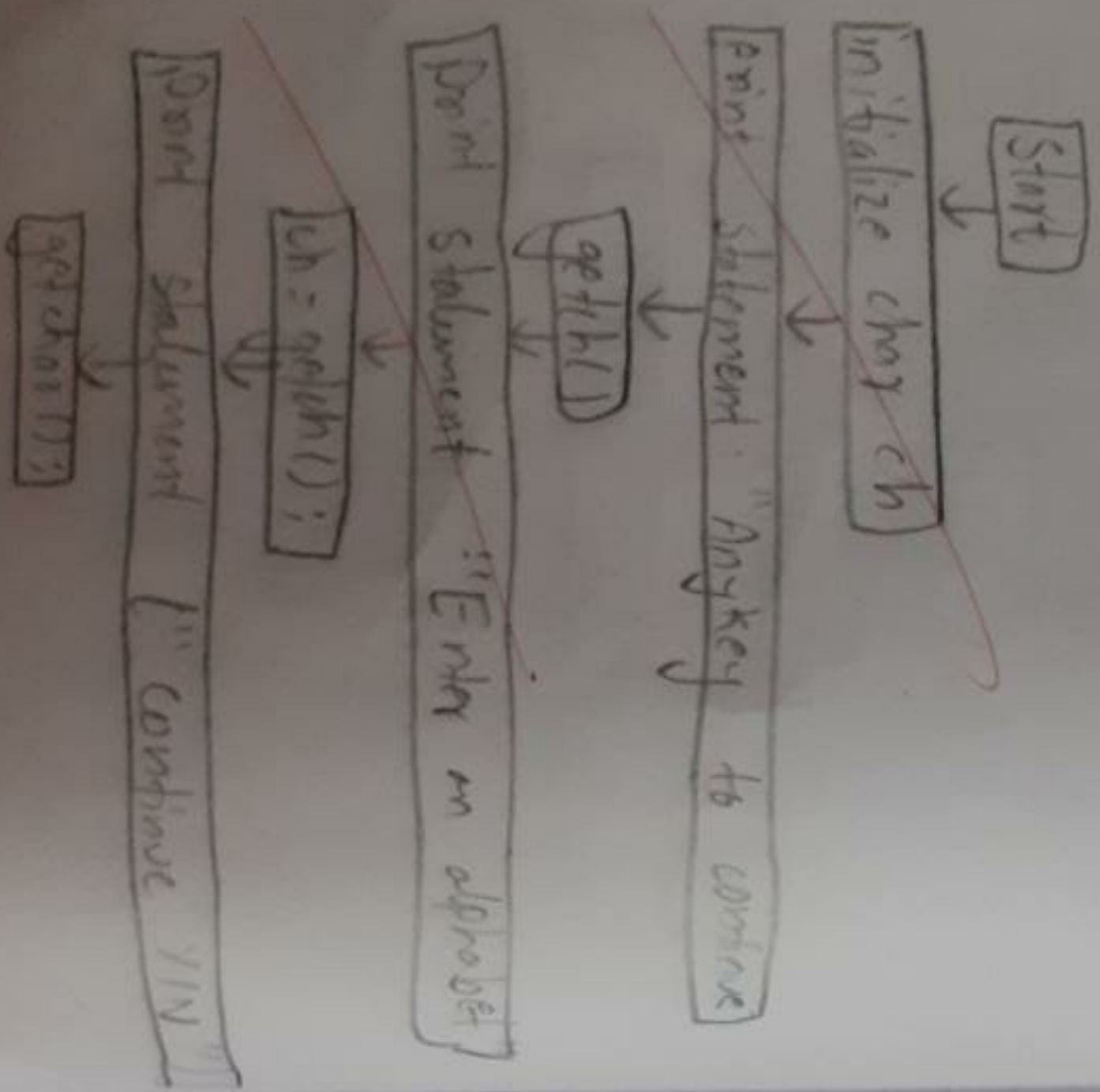
Step 6 - Assign ch to getch() function.

Step 7 - Use printf statement for asking to continue the process.

Step 8 - Use getch() function.

Step 9 - Terminate the program.

Flowchart -



③ Aim - WAP for showing the use of put function.

Algorithm:

- Step 1 - Start Turbo C application.
- Step 2 - Initialize char ch as b
- Step 3 - Use putchar function to ch.
- Step 4 - Use putchar function.
- Step 5 - Use getch function.
- Step 6 - Terminate the program.

Practical - 6

- Am. To find factorial using recursion.
- Step 1 - Start Turbo C application.
- Step 2 - Declare the int variable factorial, n.
- Step 3 - Use if conditional statement and return factorial, and use else statement for returning 1.
- Step 4 - Declare int variable ~~n~~ 9.
- Step 5 - Use print statement for taking input from user.
- Step 6 - Factorial of n is 9.
- Step 7 - Use default statement.
- Step 8 - Display the output.
- Step 9 - Terminate the program.

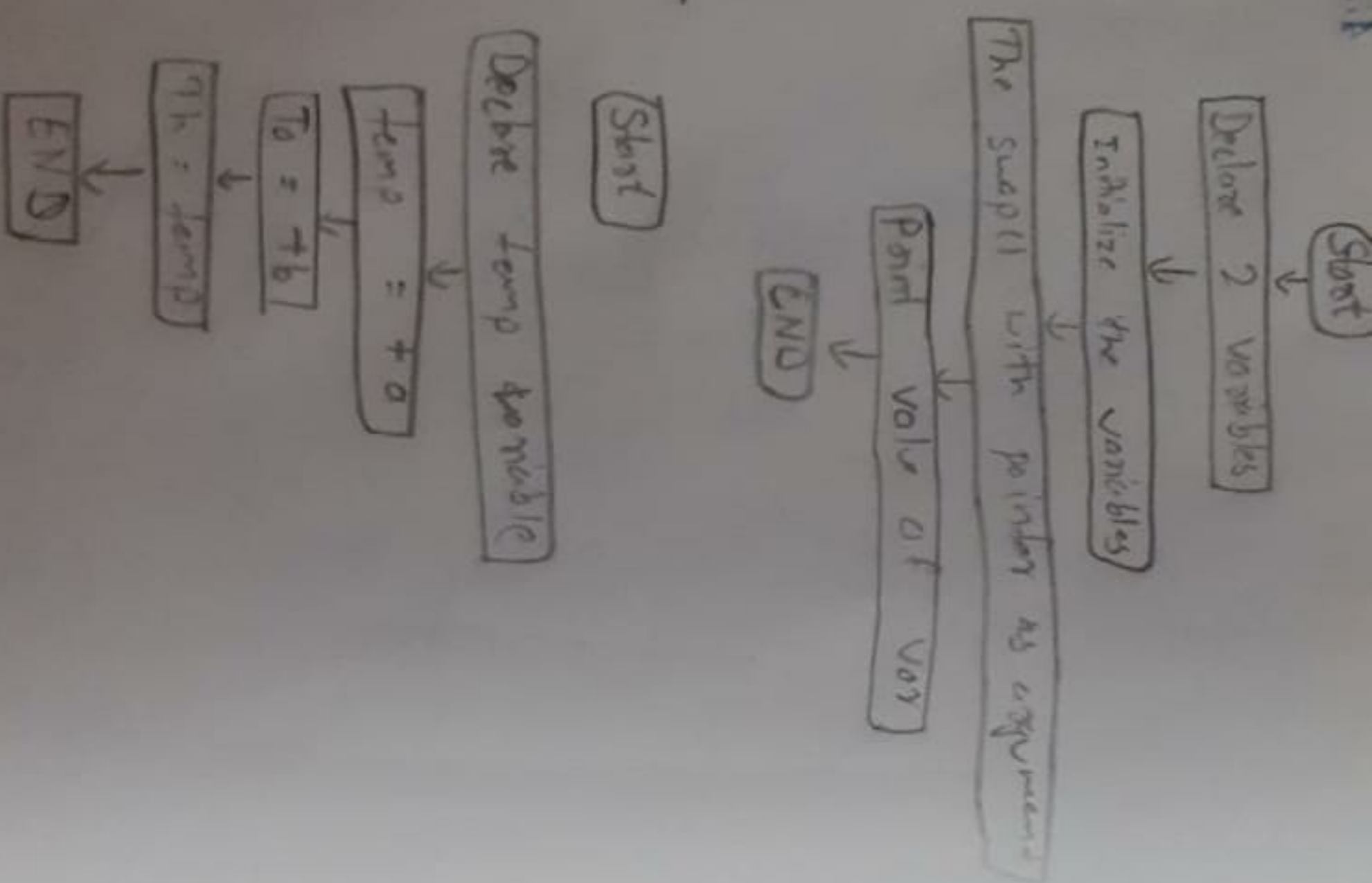
Source code :

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

Conclusion:

Thus, we have executed successfully.

Nimrod



Practical-7

Aim:-

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 2 variable and accept their value from the user and print the respective value using printf.

Step 4: Pass the address of variable as argument for the function.

Step 5: Print the ~~per~~ respective value of variable

Step 6: Use the ~~best~~ swapping algorithm in the program instead of normal variable use.

Code:

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

```
void main()
```

```
{
```

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

```
    clrscr();
```

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

```
{
```

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

```
{
```

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

```
{
```

```
                temp = *a + 1;
```

```
                *a + 1 = *a;
```

```
                *a = temp;
```

```
            }
```

```
        }
```

```
    }
```

```
    printf("%d",
```

```
        getch());
    printf("The sorted array is:");
```

Output:

Insert element into the array

2

5

9

8

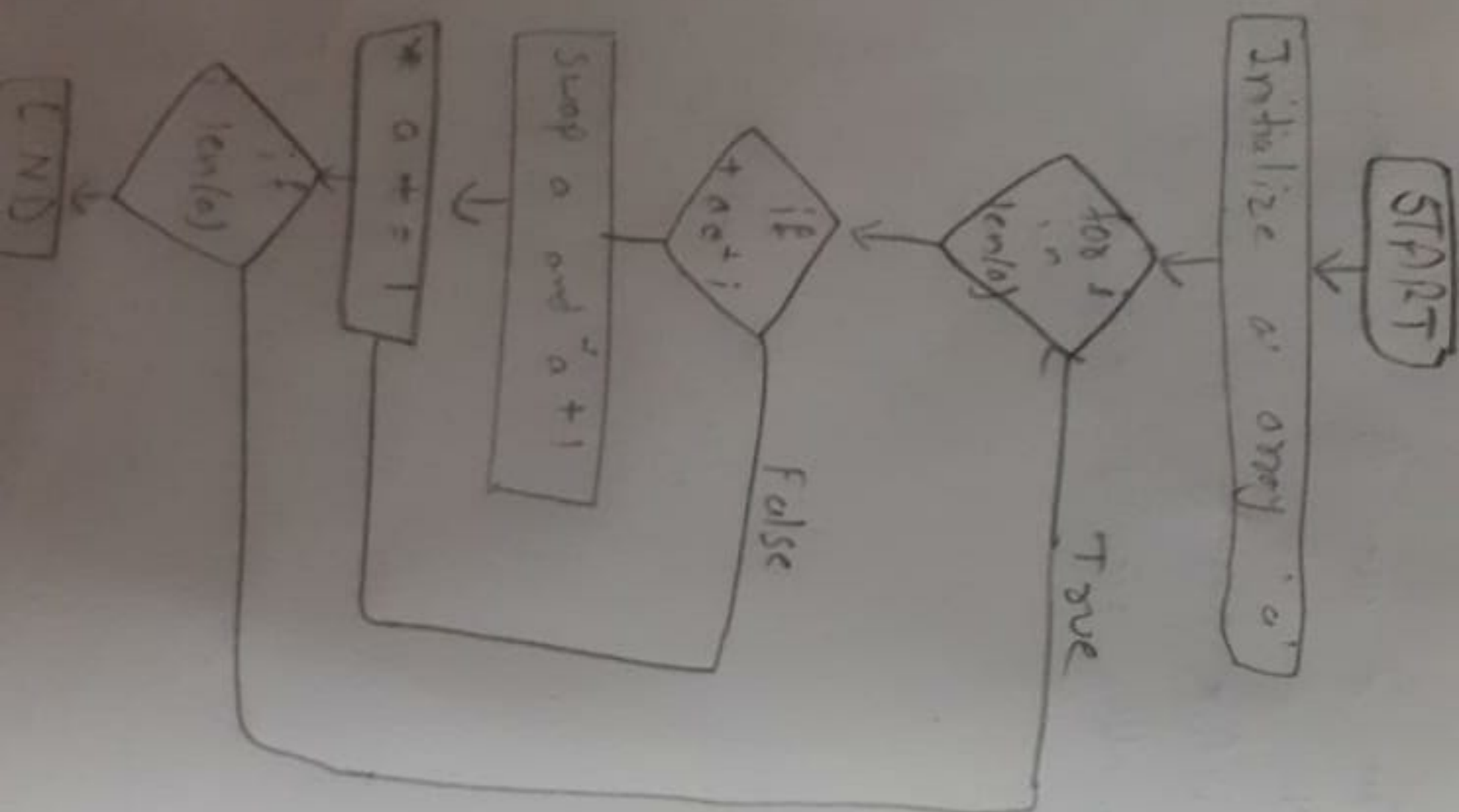
6

4

3

1

1, 2, 3, 4, 5, 6, 7, 8, 9 is sorted array



Q1 Sorting of array using points.

Algorithm:

Step 1: Initialize an integer array. Loop variable.

Step 2: Run a nested loop of $i=0$ to $\text{len}(a)-1$.

Step 3: if $a[i] > a[i+1]$, swap the two values using basic swapping logic.

Step 4: Print the swapped array.

Step 5: Terminate the program.

Source code:

```
#include <conio.h>
#include <stdio.h>
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 is %d & %d respectively\n", x, y);
    getch();
}
```

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

```
{
    temp = *m;
```

```
*m = *n;
```

```
*n = temp;
}
```

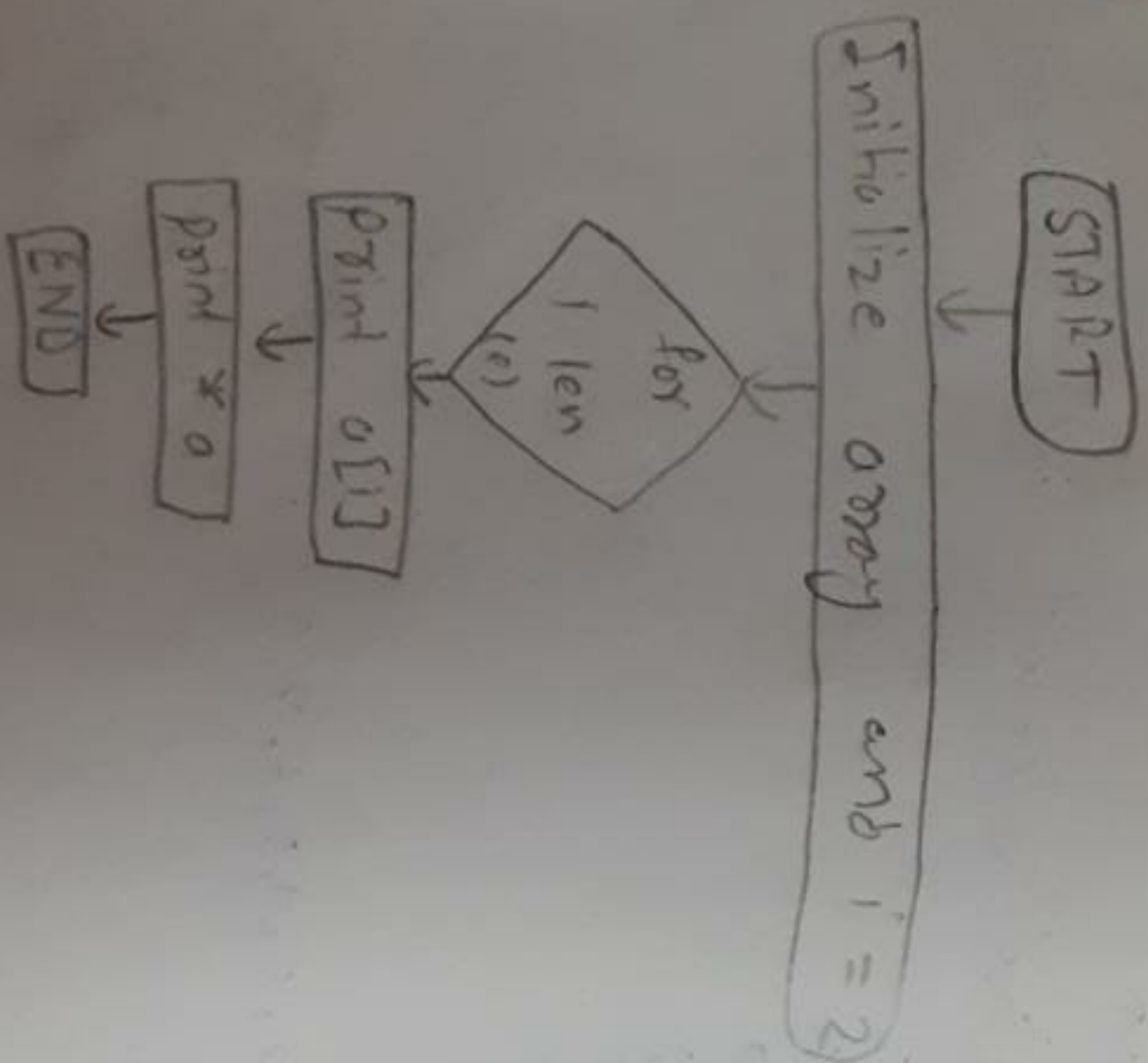
Output :

Enter the 2 no. to be swapped. 12

24

The no. before swapping are 12 & 24

The no. after swapping are 24 & 12



① Write a program to find one dimensional arrays using pointer.

Algorithm:

Step 1: Start the turbo C++ application.

Step 2: Initialize an integer array and a variable

Step 3: Run a for loop with $a = 0$ to length of array.

Step 4: Print the data of the array and then use pointer to print the memory location.

Step 5: Terminate the program.

Code:

```

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

int * ptr;
int i = 0;
ptr = &a[0];

clrscr();
while (*ptr != '\0')
{
    printf("\n the address of a[%d] = %d",
        ptr - a, ptr);
    ptr++;
    i++;
}
getch();

```

Conclusion: The program to find one-dimensional array using pointer is done & subsequently.

Output:

The address of a[0] = 65516

The value of a[0] = 7

The address of a[1] = 65518

The value of a[1] = 5

The address of a[2] = 65520

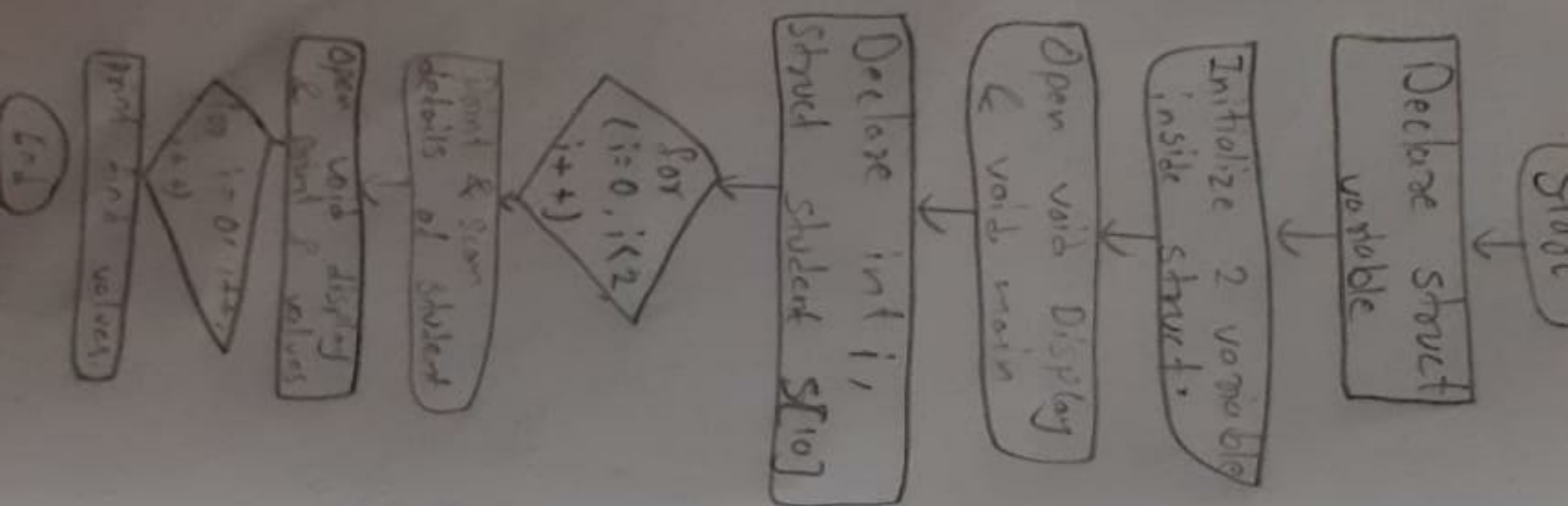
The value of a[2] = 4

The address of a[3] = 4

The value of a[3] = 4

The address of a[4] = 65524

The value of a[4] = 2



Code:

```

#include <stdio.h>
struct student {
    int roll;
    char name [10];
}

void display (struct student s[10]);
void main ()
{
    int i;
    struct student s[10];
    clrscr();
    printf ("Enter details of 2 students");
    for (i=0, i<2, i++)
    {
        printf ("Enter roll and name");
        scanf ("%d %s", &s[i].roll, &s[i].name);
    }
    display (s);
    getch();
}

void display (struct student [10])
{
    int i;
    printf ("Roll No. Name\n");
    for (i=0, i<2, i++)
    {
        printf ("%d %s\n", s[i].roll, s[i].name);
    }
}
  
```


Aim: Create a simple structure that holds following variables id, CGPA, Name.

Algorithm:

Step 1: Start the turbo C application.

Step 2: Declare the ~~stab~~ structured variable as 'struct-student'.

Step 3: Initialize the structure student with 3 more variable inside it as 'int-id', 'float (GPA)' 'char name [10]'.

Step 4: Now inside void main() define struct student.

Step 5: Print the details of the student such as id, CGPA, Name.

Step 6: Terminate the program.

Q] An. UACF. which will demonstrate use of structure and function.

Algorithm

Step 1: Start the Turbo C application

Step 3: Initialize the struct student with two array variables (int roll, char roll and char name[10]).

Step 2: Declare the structured variable as struct student.

Step 4: Now type void main display and void main declare int i, struct student s[10]

Step 5: Print the details of the student.

Step 6: Open void display again and print the values using condition & print.

Step 7: Terminate the program

Output

(1)

Enter ID CGPA and name of student

ID = 1

CGPA = 6.33

Name = Nishu

Source code:

struct student

{
int id;

float CGPA

char name[10];

};

void main()

{

struct student s1;

printf("Enter ID, CGPA and name of student")

scanf("%d %f %s", &s1.id, &s1.CGPA, s1.name)

printf("\n ID %d CGPA = %f", s1.id, s1.CGPA)

printf("\n CGPA = %f", s1.CGPA)

printf("\n name = %s", s1.name)

}

Start

Declare structured variables
as struct student

Inside struct student
initialize 3 more variables

Open void main

Define struct student
s1

Print the values
of student

END

2

(code:

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

```
int main (int argc, const char *argv[])
{
```

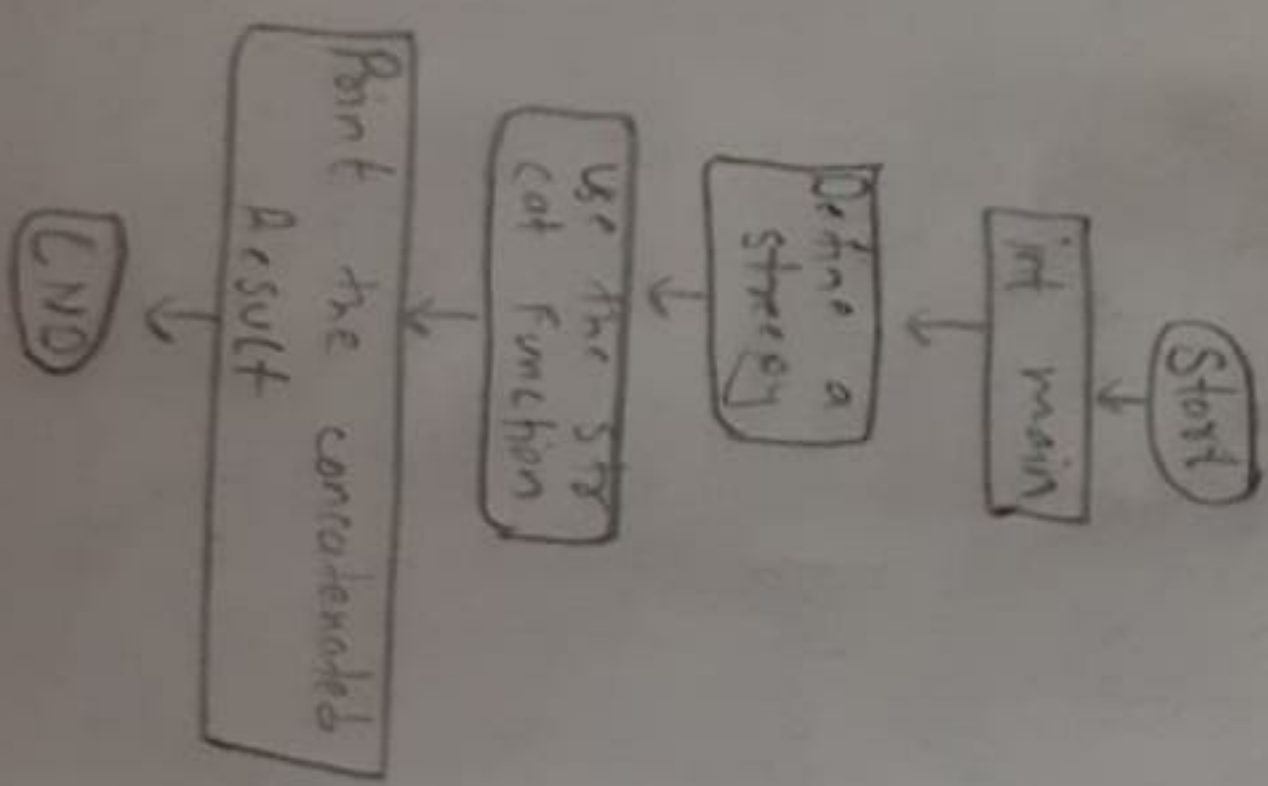
```
    char example [100];
    strcpy (example, "Rahul");
}
```

```
    strcpy (example, "Is over 18");
    strcpy (example, "year old");
```

```
    printf "%s\n", example;
    return 0;
```

}

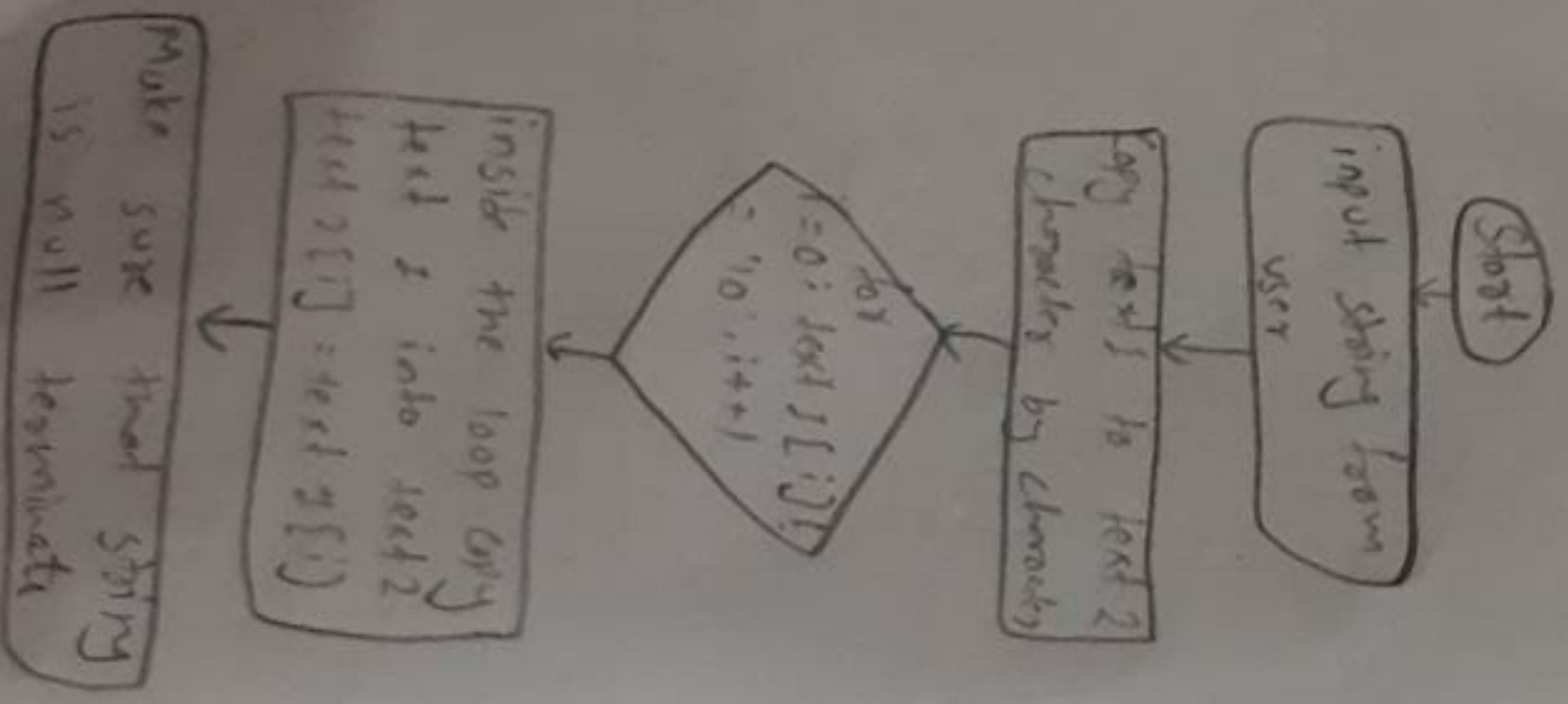
Output: Rahul. Is over 18 years old. 62



Q. Ans: Write a program which will demonstrate the use of string library function.

strcat: The strcat() function will copy of the source string to the end of destination string. The strcat function takes 2 argument 1) dest 2) src

The strcat function return a pointer (where the resulting concatenated string resides):



Practical - 9

Aim - WAP to copy one string into another string.

Algorithm:

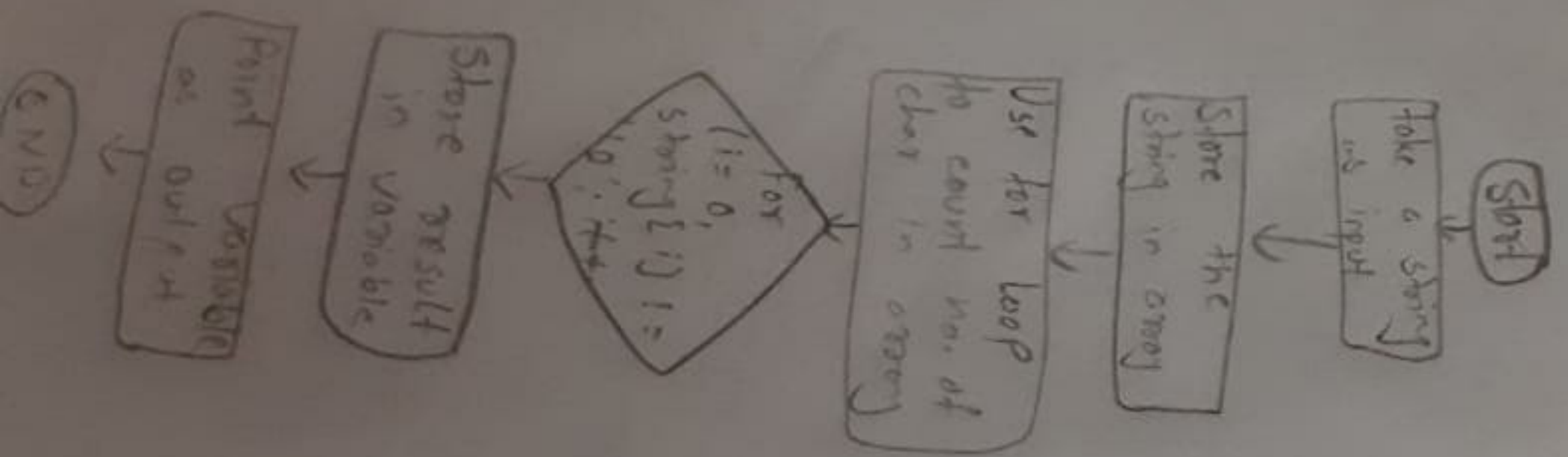
Step 1: Input string from user and store it to some variable say text 1.

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. should be like
 for i=0; text1[i]!='0'; i++

Step 4: Inside the loop for each character in text 1 copy to text 2. Say text 2[i] = text 1[i];

Step 5: Finally after loop make sure the copied string with null character i.e. text 2[i] = '\0';



Aim: WAP which display the length of a string without using string function.

Algorithm:

Take a string as input and store it in the array

Using for loop count the number characters in array

Print the variable as out.

Code:

```
#include <stdio.h>
void main()
{
    char string[50];
    int i, length = 0;

    printf("\nEnter a string\n");
    get_string();

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

    printf("\nThe len of str is the no. of\ncharacters in\n");
    printf("\nSo the len of %s = %d\n",
           string, length);
}
```

Output:

Entered a string:

It is a cold night

The length of str is the no. of characters in it.
So the length of . It is a cold = 18.

Code:

```
#include <stdio.h>
#define MAX_SIZE 100

int main()
{
    char text 1[MAX_SIZE];
    char text 2[MAX_SIZE];

    int i;

    printf ("Enter any string: ")
    gets (text 1);

    for (i=0; text 1[i] != '\0'; i++)
    {
        text 2[i] = text 1[i];
    }

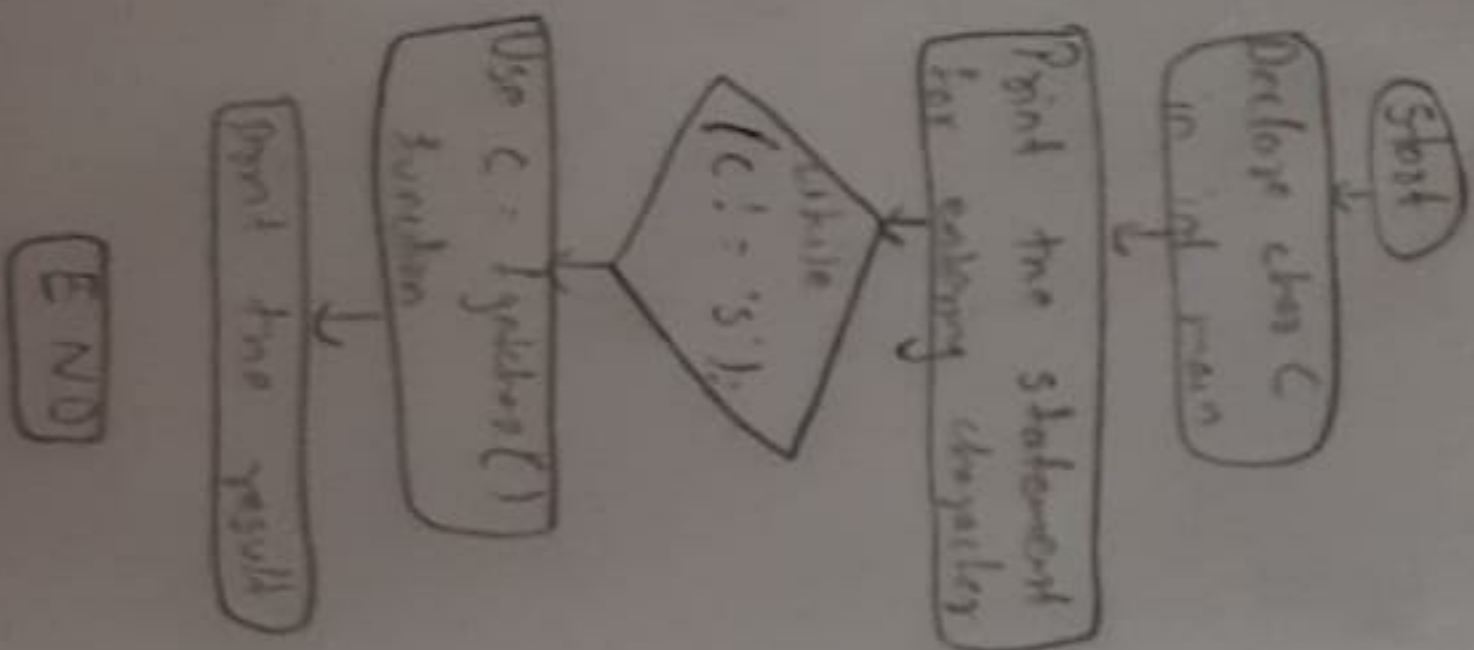
    text 2[i] = '\0';

    printf ("String = %s\n", text 1)
    printf ("String = %s\n", text 2)
    printf ("Characters copied = %d\n", i)

    return 0;
}
```

Output:

Enter any string. There are 7 days in a week.
First string: There are 7 days in a week.
First string copy: There are 7 days in a week.
Total character copied: 26.



Ques: WAP for getch(). getch(), & printf() function

Algorithm 3 Description.

- getch is a file handling function.
- It is used to read a single character from keyboard input.

code for reading from text file & opening it
 Text file.txt and its contents
 are
 87
 88
 89
 90

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

int main()
{
    FILE *fptr;
    if ((fptr = fopen("C:\\Program Files\\", "r")) == NULL)
    {
        printf("Error! opening file");
    }
}
```

endl);

```
} scanf("%d", &num);
printf("Value are = %d", num);
fclose(fptr);
```

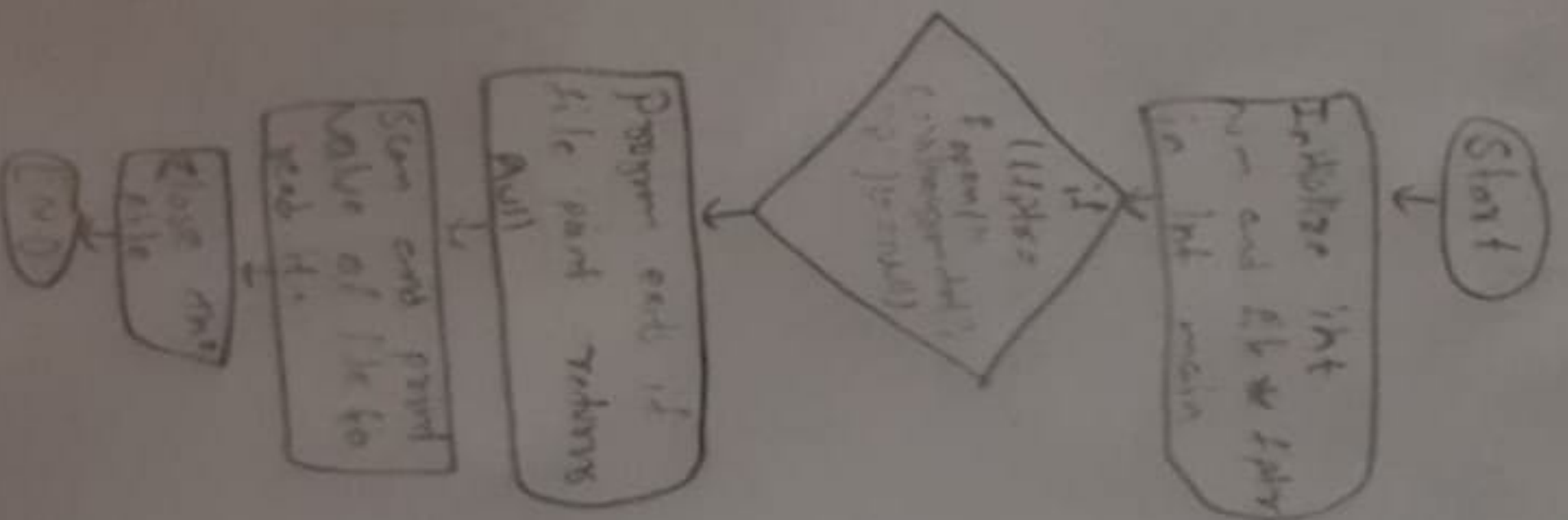
return 0;

Output:

Values are =

87
 88
 89
 90

Read from text file and close it.



Practical 10.

Aim: Program for file open, file read and file close.

fopen() → Opens an existing file or creates a new file. for use.

fread() → Read & Read from a file.

fclose() → Closes a file.

Code:

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

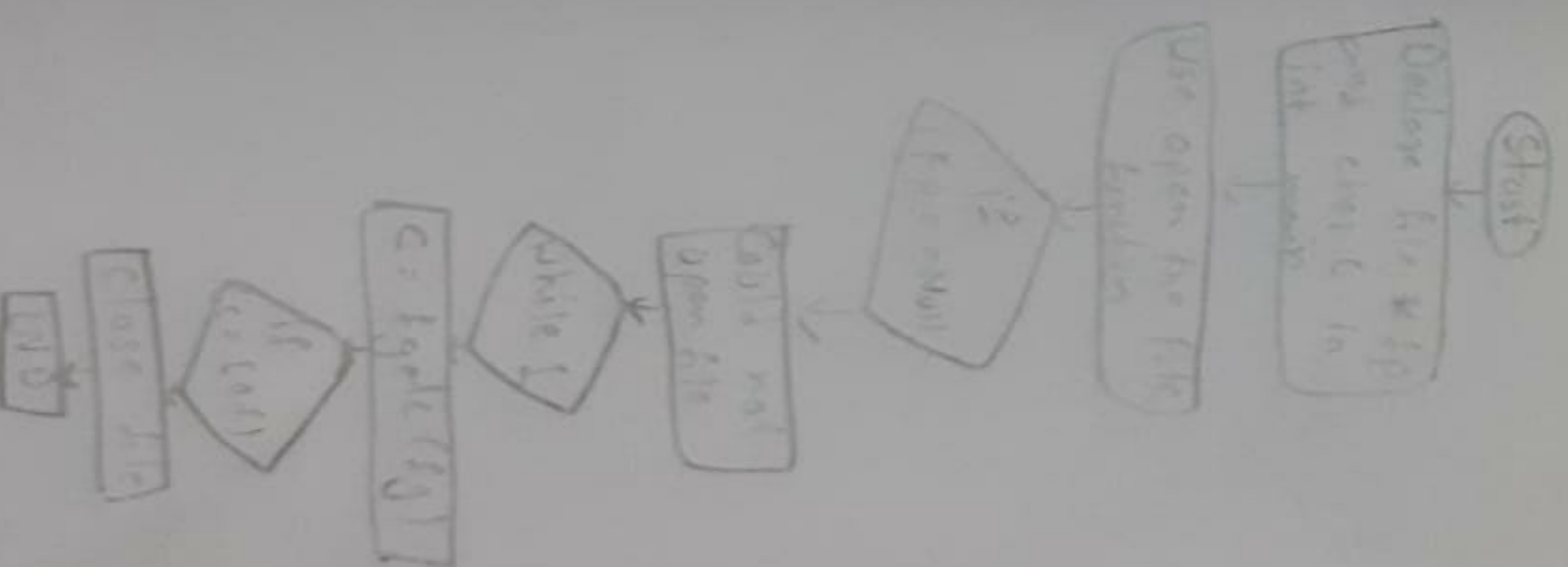
```
char c;
printf("\nEnter some character Enter to exit")
while (c != '\0');
```

```
c = getch();
printf("\nEnter character is: ");
putchar(c);
printf("\n");
```

return 0;

Output: . Enter some character. Enter \$ to exit

Enter character is A.
Enter character is B.
Enter character is \$
Enter character is \$



`fgetc()` → Used to read a character from a file.
 Read single character at a time.
 In a program we use `fgetc()` function
 whose
`fp = file pointer`

Code:

```

include <stdio.h>
int main()
{
    FILE * fp;
    char s[100];
    printf("Opening file test.c in read mode\n");
    fp = fopen("test.c", "r");
    if (fp == NULL)
    {
        printf("Could not open file test.c");
        return 1;
    }
    printf("Could not open file test.c");
    fclose(fp);
    {
        c = fgetc(fp);
        if (c == EOF)
            break;
        printf("%c", c);
    }
}

```

```
print /" Closing file test.c" );  
fclose(fp)  
return 0;  
}
```