

# **C PROGRAMMING & DATA STRUCTURES**

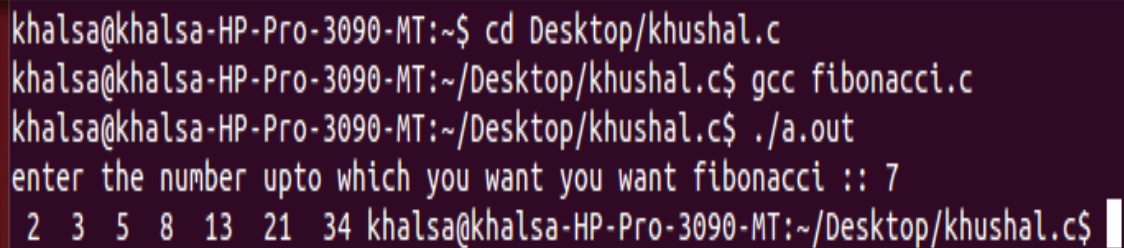
KHUSHAL KAPOOR  
2015ELE1020  
BSc(H) Electronics



# Fibonacci Series

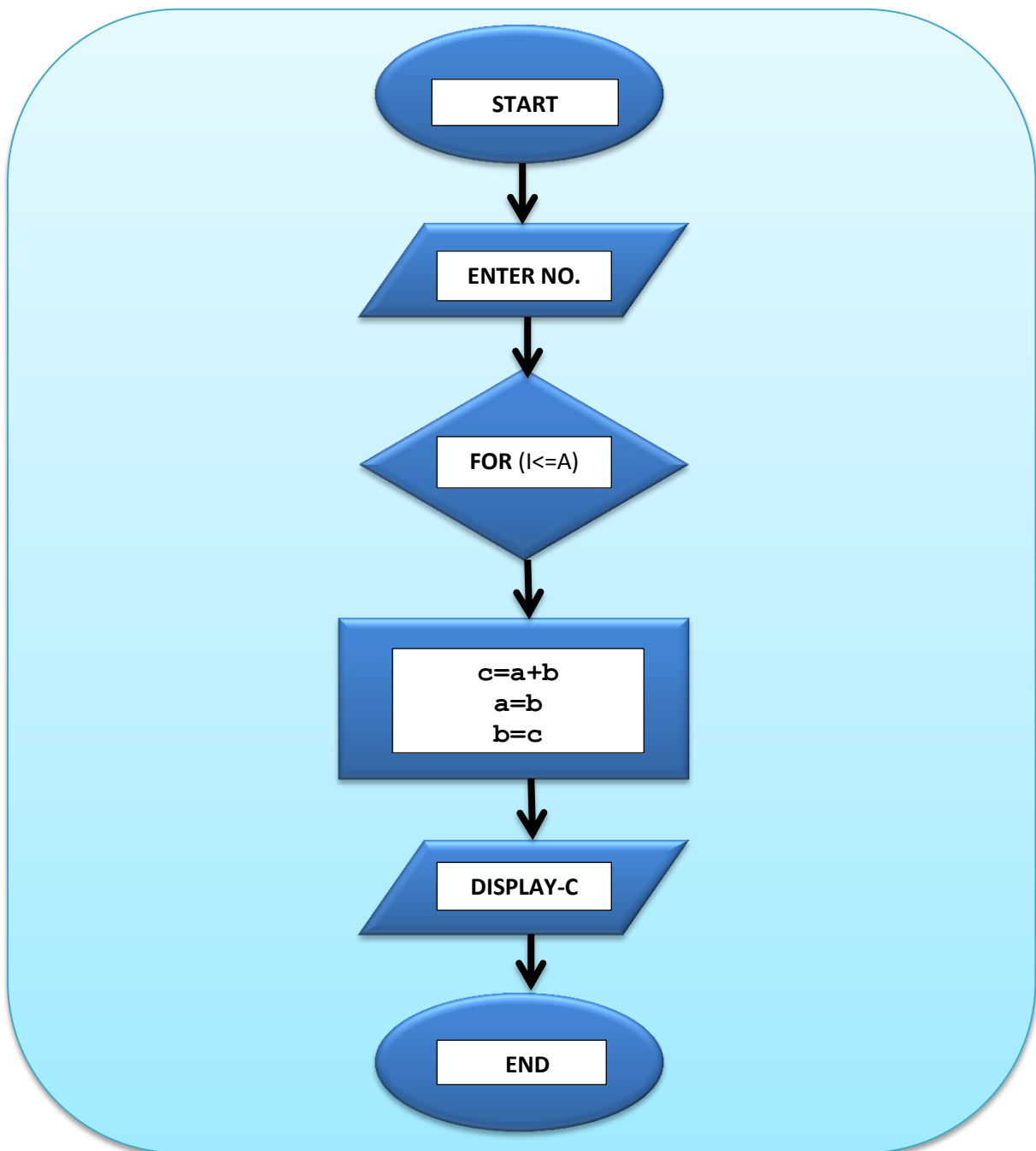
```
#include<stdio.h>
void main()
{
    int a=1,b=1,n,c,i;
    printf("enter the number upto which you want you want
fibonacci :: ");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        c=a+b;
        a=b;
        b=c;
        printf(" %d ",c);
    }
}
```

## **OUTPUT ::**



```
khalsa@khalsa-HP-Pro-3090-MT:~$ cd Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ gcc fibonacci.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ ./a.out
enter the number upto which you want you want fibonacci :: 7
2 3 5 8 13 21 34 khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$
```

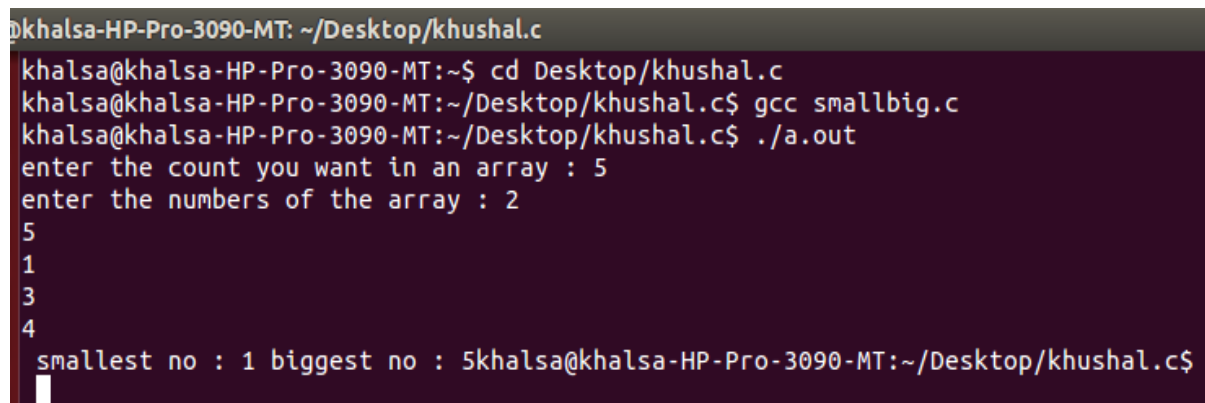
**FLOW CHART ::**



# MINIMUM & MAXIMUM OF N NUMBERS

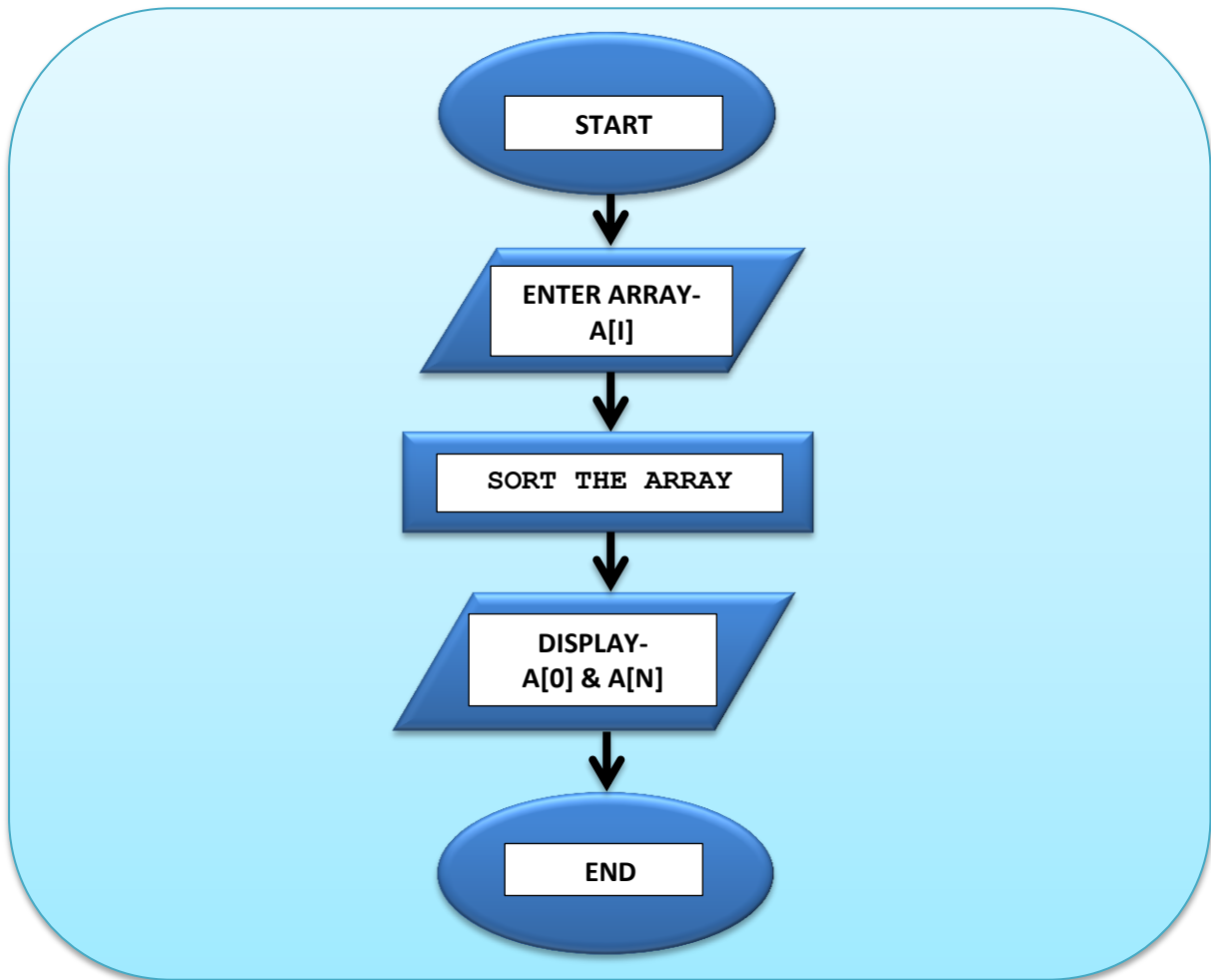
```
#include<stdio.h>
void main()
{
    int a[100],n,i,j,b;
    printf("enter the count you want in an array : ");
    scanf("%d",&n);
    printf("enter the numbers of the array : ");
    for(i=1;i<=n;i++)
    {
        scanf("%d",&a[i]);
    }
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if(a[j]>a[j+1])
            {
                b=a[j];
                a[j]=a[j+1];
                a[j+1]=b;
            }
        }
    }
    printf(" smallest no : %d",a[1]);
    printf(" biggest no : %d",a[n]);
}
```

## OUTPUT ::



```
@khalsa-HP-Pro-3090-MT: ~/Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~$ cd Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ gcc smallbig.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ ./a.out
enter the count you want in an array : 5
enter the numbers of the array : 2
5
1
3
4
smallest no : 1 biggest no : 5khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$
```

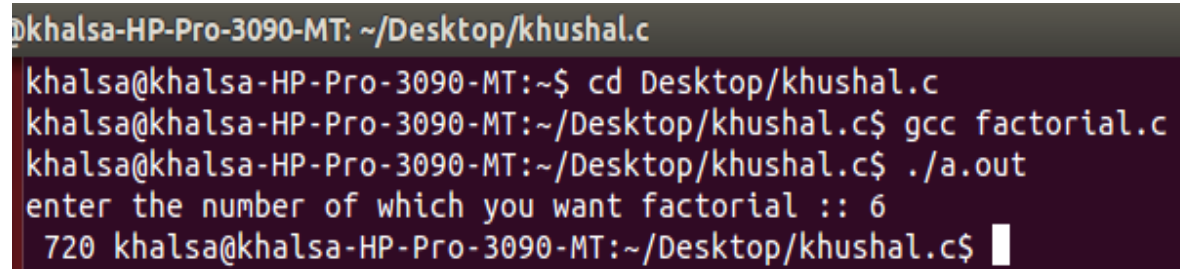
**FLOW CHART ::**



# FACTORIAL

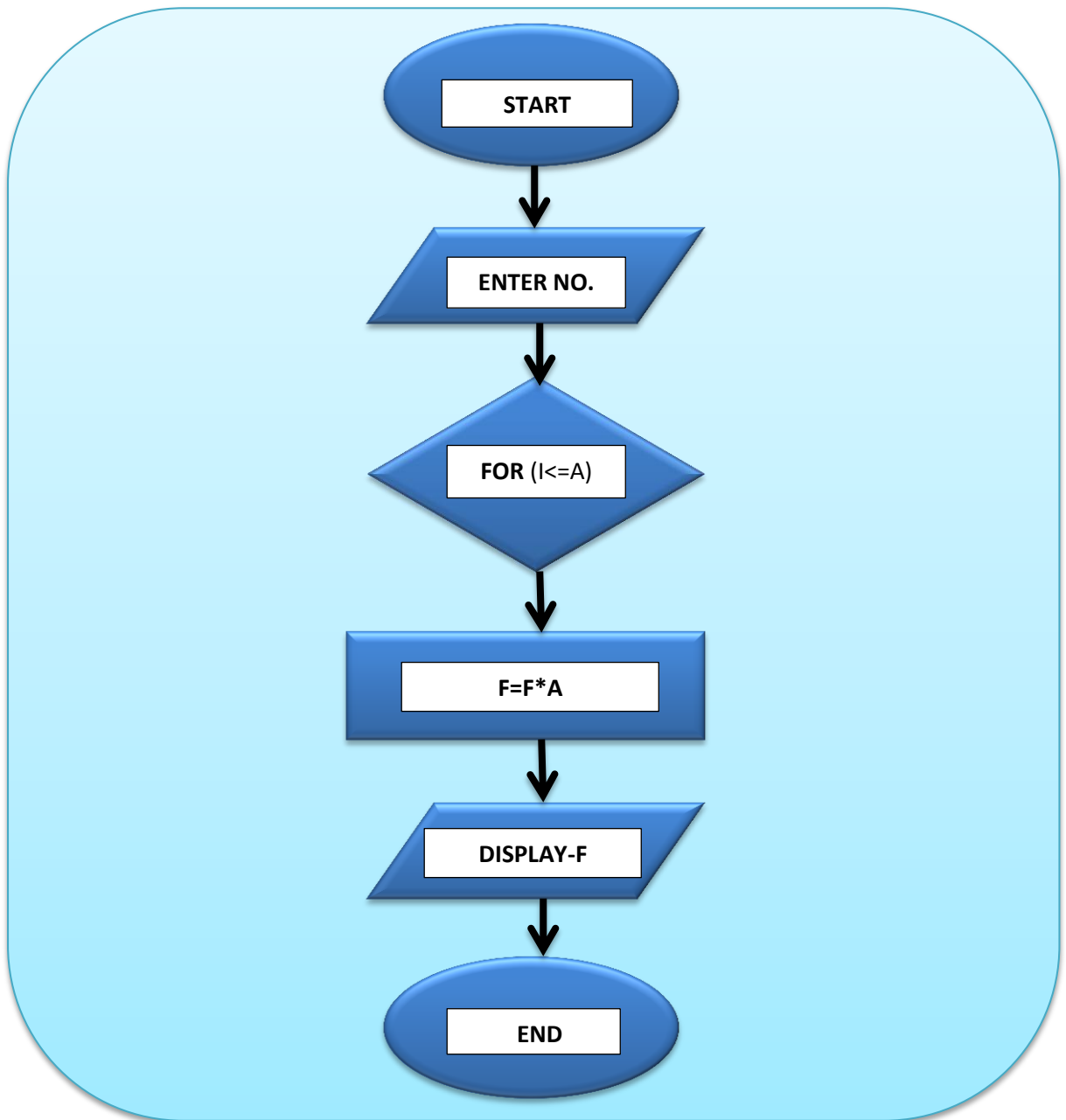
```
#include<stdio.h>
void main()
{
    int a,i,f=1;
    printf("enter the number of which you want factorial :: ");
    scanf("%d",&a);
    for(i=1;i<=a;i++)
    {
        f=f*i;
    }
    printf(" %d ",f);
}
```

## OUTPUT ::

A terminal window screenshot with a dark purple background. The prompt is 'khalsa@khalsa-HP-Pro-3090-MT: ~/Desktop/khushal.c'. The user enters 'cd Desktop/khushal.c', then 'gcc factorial.c', and finally './a.out'. The program prompts 'enter the number of which you want factorial ::' and the user enters '6'. The program outputs '720' followed by a space and a cursor.

```
khalsa@khalsa-HP-Pro-3090-MT: ~/Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~$ cd Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ gcc factorial.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ ./a.out
enter the number of which you want factorial :: 6
720 khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$
```

**FLOW CHART ::**

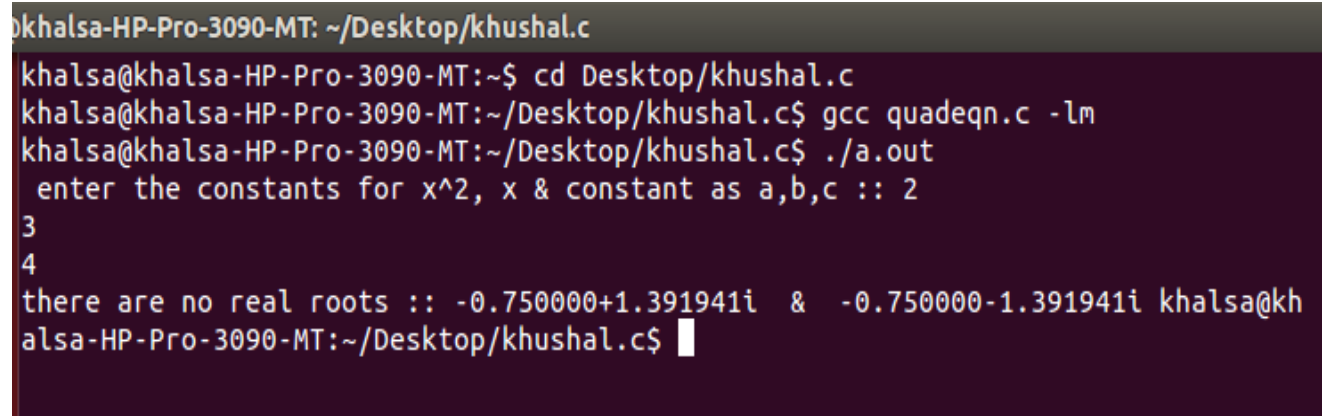




# ROOTS OF QUADRATIC EQUATION

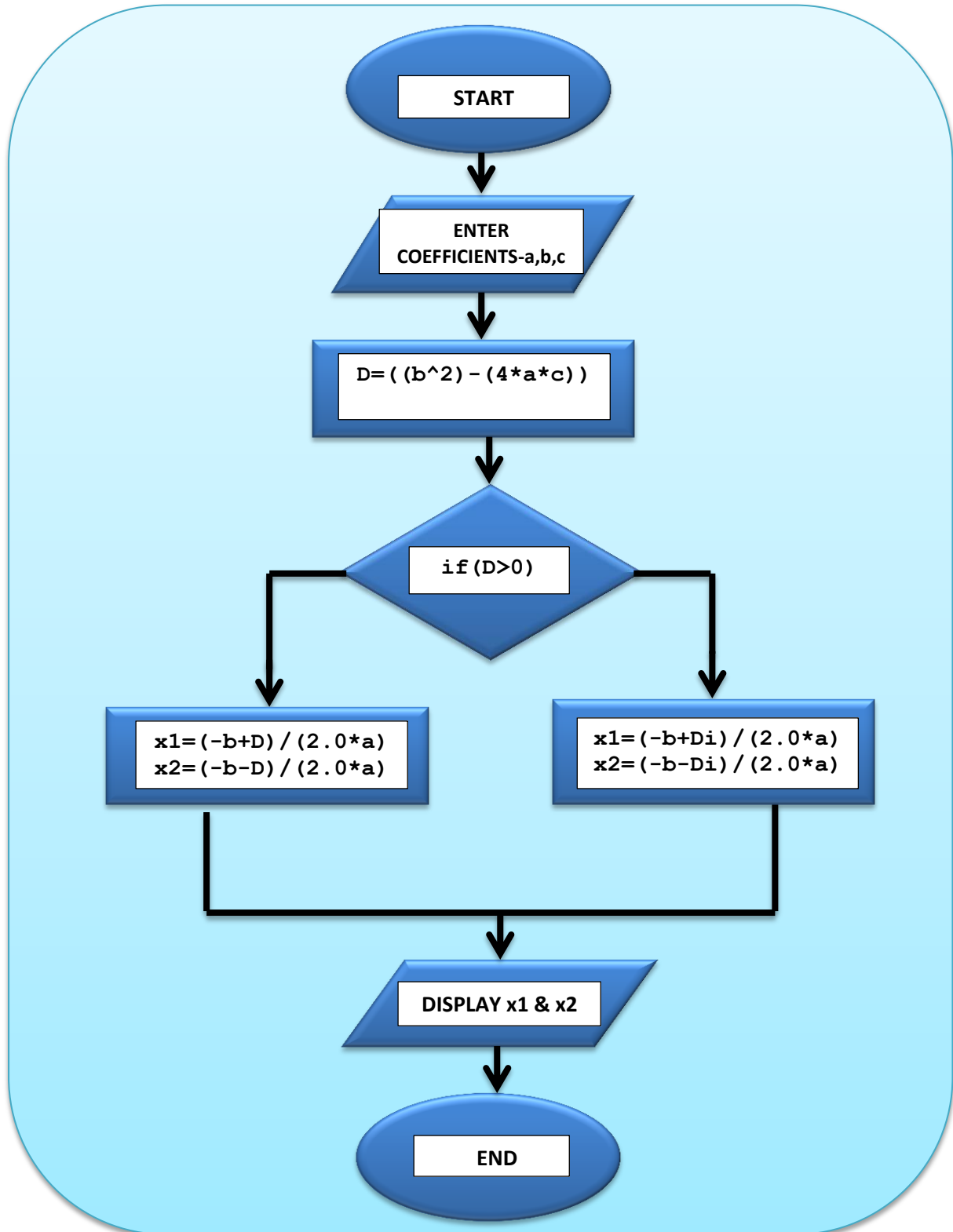
```
#include<stdio.h>
#include<math.h>
void main()
{
    int a,b,c;
    float D,x1,x2,x,d;
    printf(" enter the constants for x^2, x & constant as a,b,c ::
");
    scanf("%d%d%d",&a,&b,&c);
    d=((b^2)-(4*a*c));
    if(d>0)
    {
        D=sqrt(d);
        x1=(-b+D)/(2.0*a);
        x2=(-b-D)/(2.0*a);
        printf("there were two real roots ::%f & %f",x1,x2);
    }
    else if(d<0)
    {
        D=sqrt(-d);
        printf("there are no real roots :: %f+%fi & %f%fi ",(-
b/(2.0*a)), (D/(2.0*a)), (-b/(2.0*a)), -(D/(2.0*a)));
    }
    else
    {
        x=-b/(2*a);
        printf("there is only one root :: %f",x);
    }
}
```

## OUTPUT ::



```
khalsa-HP-Pro-3090-MT: ~/Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~$ cd Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ gcc quadeqn.c -lm
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ ./a.out
enter the constants for x^2, x & constant as a,b,c :: 2
3
4
there are no real roots :: -0.750000+1.391941i & -0.750000-1.391941i khalsa@kh
alsa-HP-Pro-3090-MT:~/Desktop/khushal.c$
```

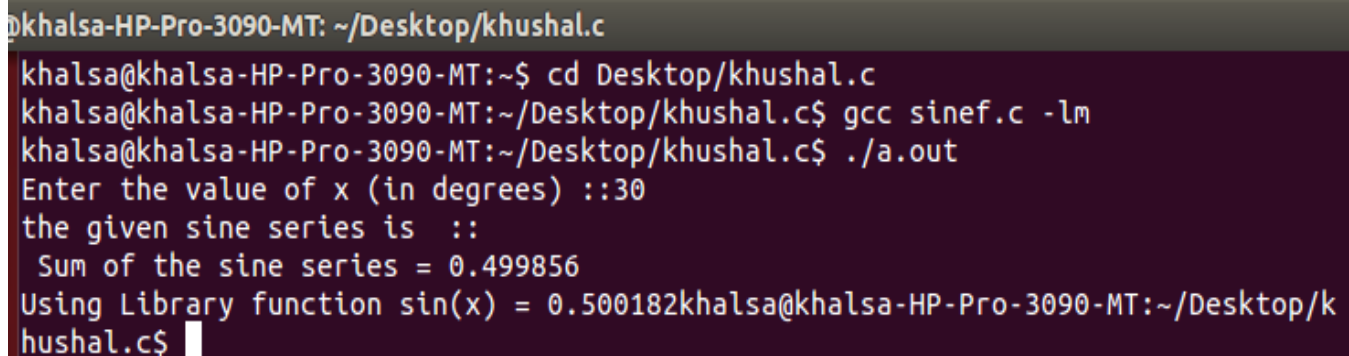
## FLOW CHART ::



# VALUE OF SIN(X)

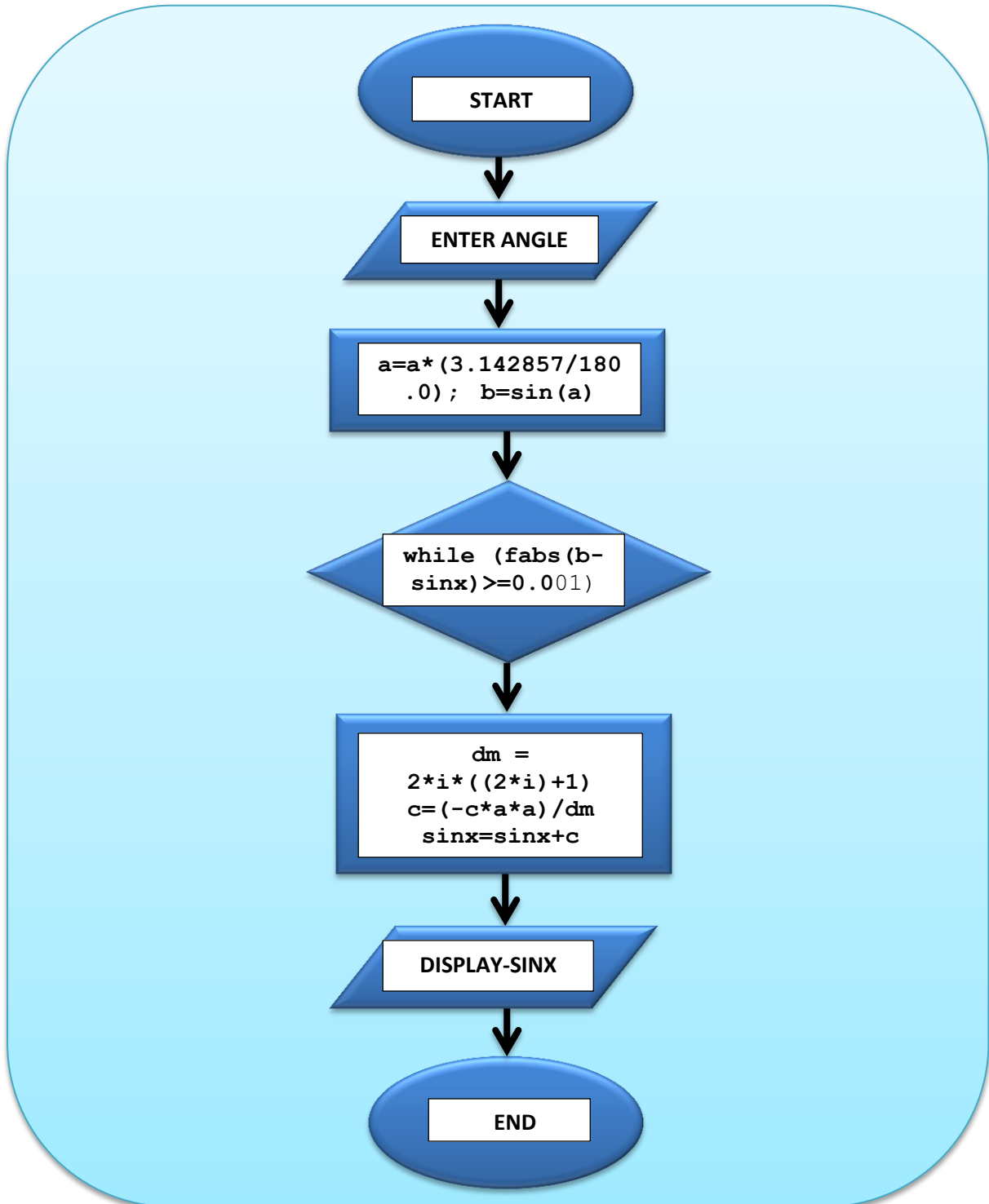
```
#include<stdio.h>
#include<math.h>
void main()
{
    float a,b,c,sinx,dm;
    int i=1;
    printf("Enter the value of x (in degrees) ::");
    scanf("%f",&a);
    a=a*(3.142857/180.0);
    b=sin(a);
    c=a;
    sinx=c;
    while (fabs(b-sinx)>=0.001)
    {
        dm = 2*i*((2*i)+1);
        c=(-c*a*a)/dm;
        sinx=sinx+c;
        i=i++;
    }
    printf("the given sine series is :: \n ");
    printf("Sum of the sine series = %f \n", sinx);
    printf("Using Library function sin(x) = %f", b);
}
```

## OUTPUT ::



```
khalsa@khalsa-HP-Pro-3090-MT: ~/Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~$ cd Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ gcc sinef.c -lm
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ ./a.out
Enter the value of x (in degrees) ::30
the given sine series is ::
Sum of the sine series = 0.499856
Using Library function sin(x) = 0.500182khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/k
hushal.c$
```

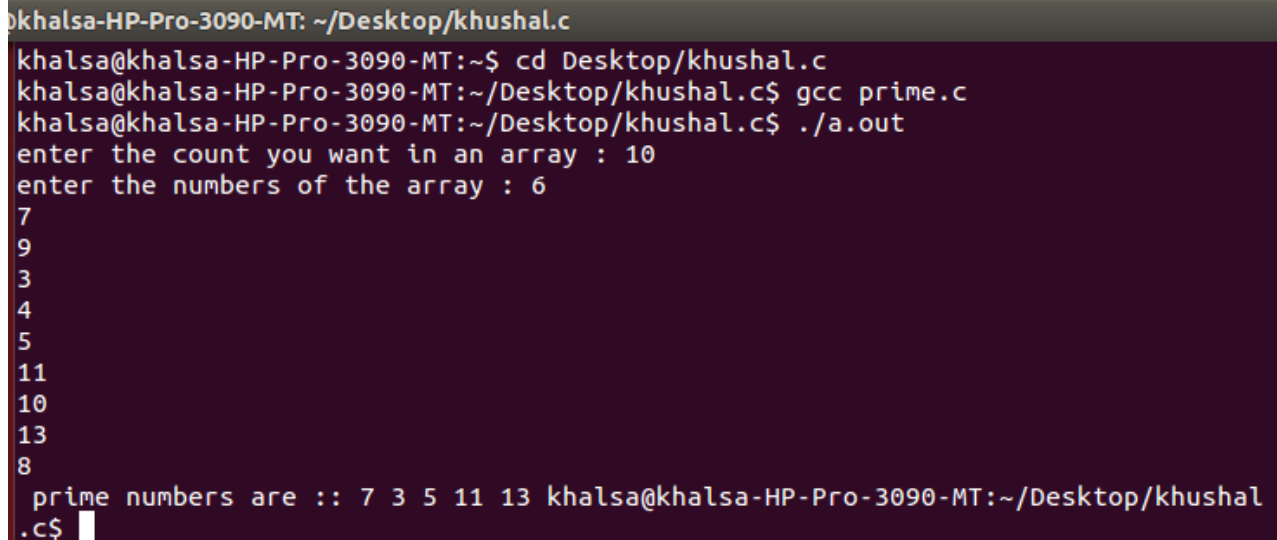
## FLOW CHART ::



# PRIME NUMBERS

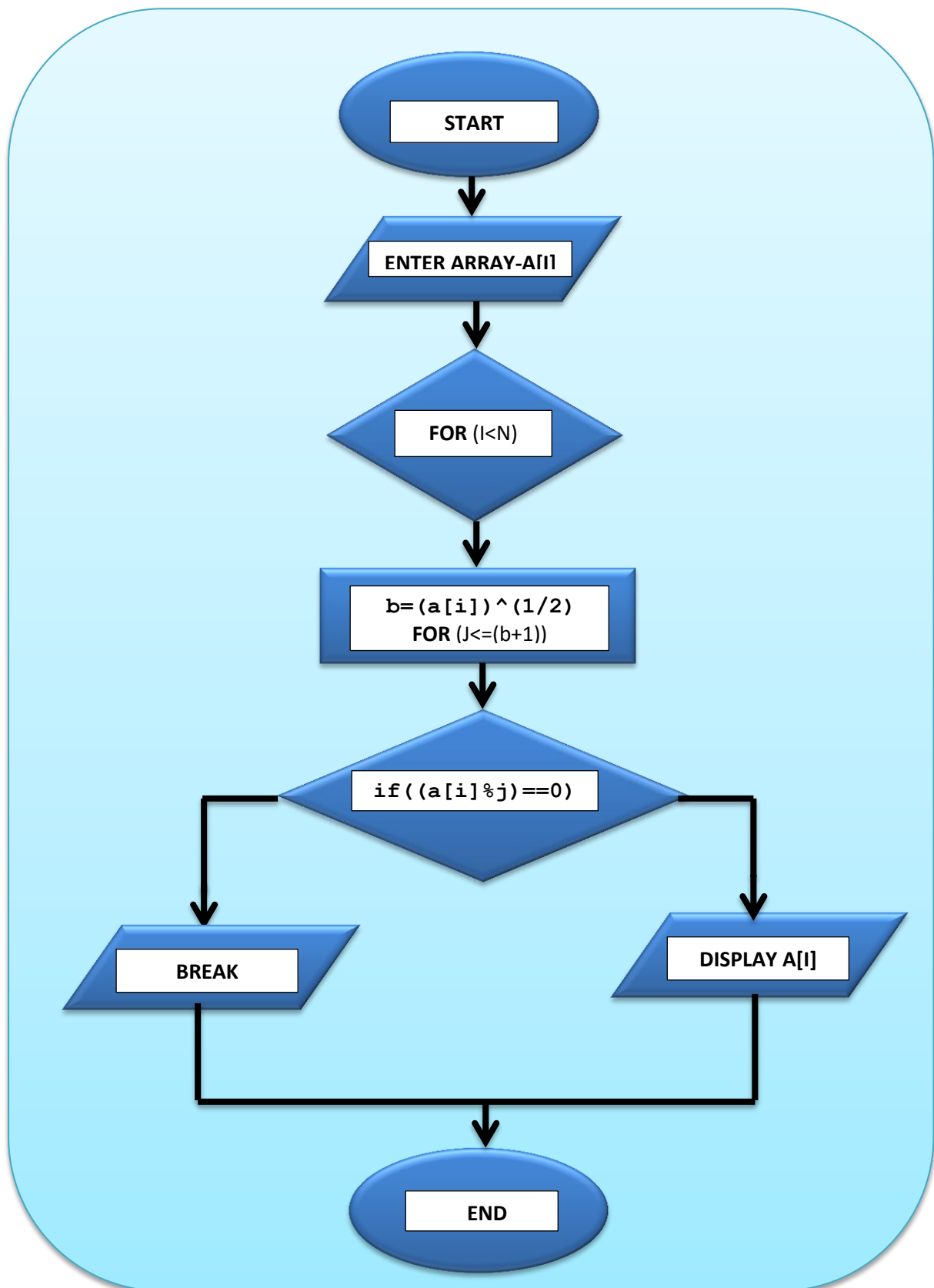
```
#include<stdio.h>
#include<math.h>
void main()
{
    int a[100],n,i,j;
    double b;
    printf("enter the count you want in an array : ");
    scanf("%d",&n);
    printf("enter the numbers of the array : ");
    for(i=1;i<=n;i++)
    {
        scanf("%d",&a[i]);
    }
    printf(" prime numbers are :: ");
    for(i=1;i<=n;i++)
    {
        int x=0;
        b=(a[i])^(1/2);
        for(j=2;j<=(b+1);j++)
            if((a[i]%j)==0)
                break;
        if(j>=b)
            printf("%d ",a[i]);
    }
}
```

## OUTPUT ::



```
khalsa-HP-Pro-3090-MT: ~/Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~$ cd Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ gcc prime.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ ./a.out
enter the count you want in an array : 10
enter the numbers of the array : 6
7
9
3
4
5
11
10
13
8
prime numbers are :: 7 3 5 11 13 khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal
.c$
```

## FLOW CHART ::



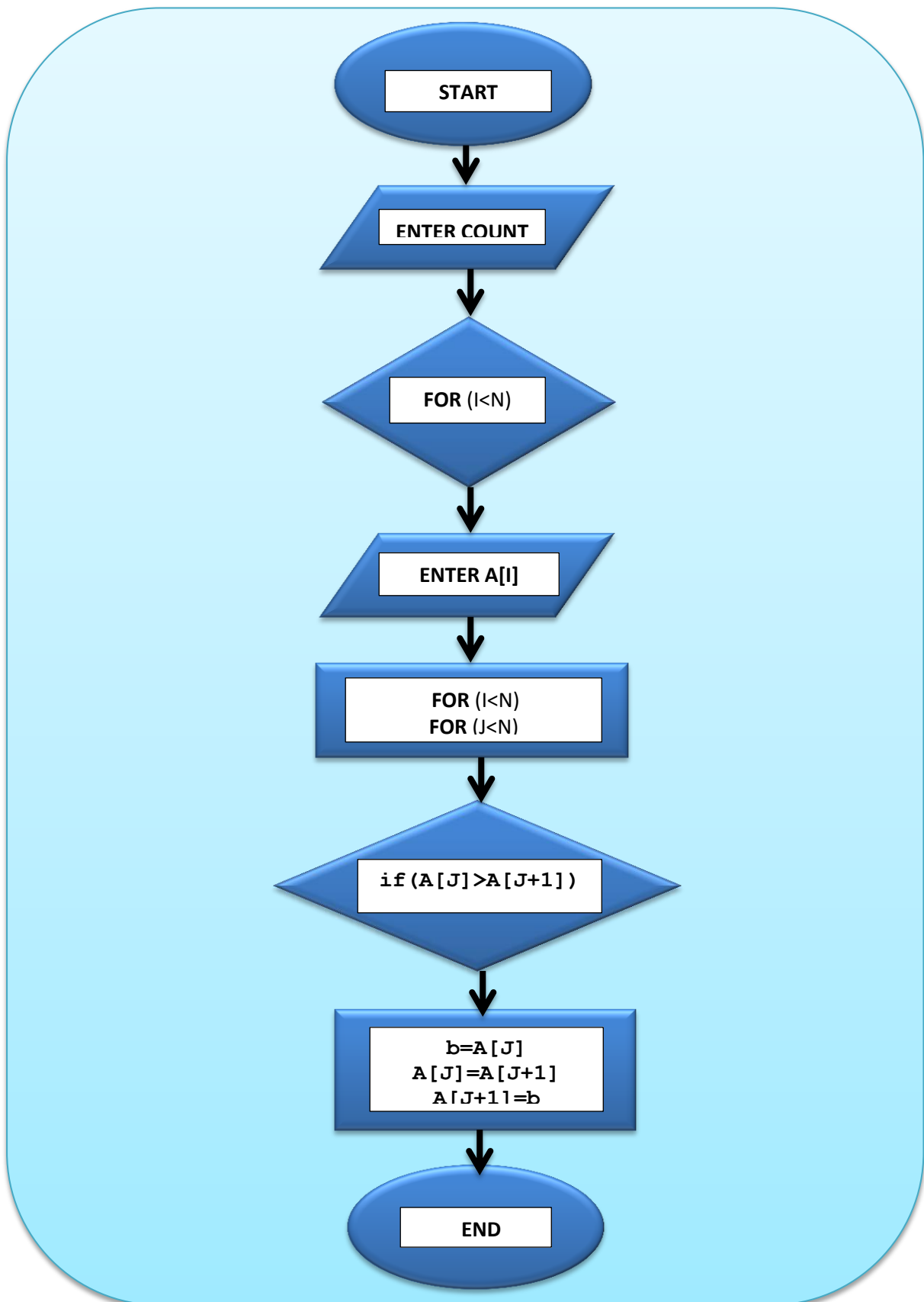
# NUMBERS IN ASCENDING ORDER

```
#include<stdio.h>
void main()
{
    int a[100],n,i,j,b;
    printf("enter the count you want in an array : ");
    scanf("%d",&n);
    printf("enter the numbers of the array : ");
    for(i=1;i<=n;i++)
    {
        scanf("%d",&a[i]);
    }
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if(a[j]>a[j+1])
            {
                b=a[j];
                a[j]=a[j+1];
                a[j+1]=b;
            }
        }
    }
    printf(" array in sorted manner : ");
    for(i=1;i<=(n+1);i++)
    {
        printf(" %d ",a[i]);
    }
}
```

## OUTPUT ::

```
khalsa-HP-Pro-3090-MT: ~/Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~$ cd Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ gcc sortingarray.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ ./a.out
enter the count you want in an array : 10
enter the numbers of the array : 8
4
6
5
7
2
3
1
10
9
array in sorted manner : 1 2 3 4 5 6 7 8 9 10 32748 khalsa@khalsa-HP
-Pro-3090-MT:~/Desktop/khushal.c$
```

## FLOW CHART ::





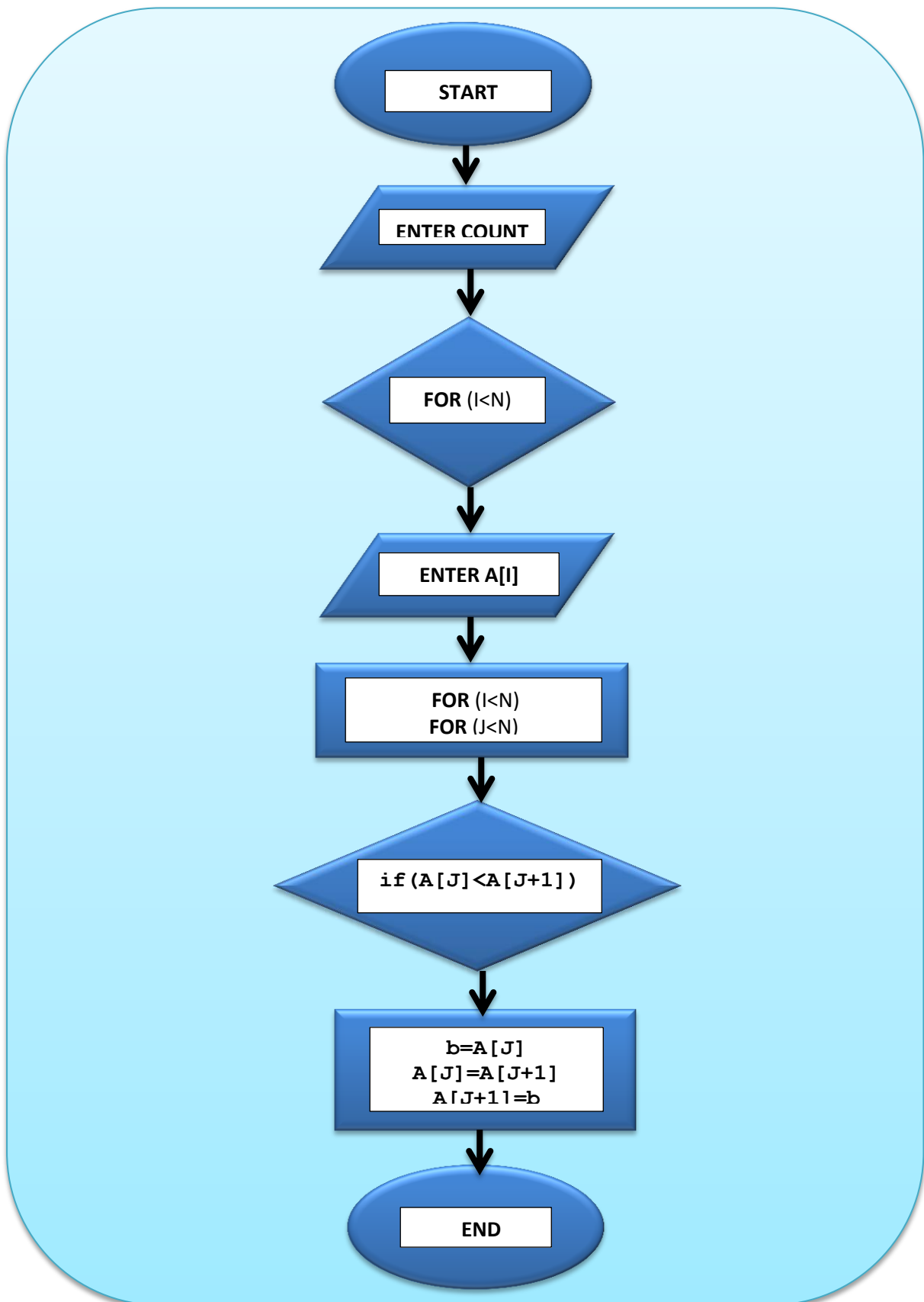
# ARRAY IN DESCENDING ORDER

```
#include<stdio.h>
void main()
{
    int a[100],n,i,j,b;
    printf("enter the count you want in an array : ");
    scanf("%d",&n);
    printf("enter the numbers of the array : ");
    for(i=1;i<=n;i++)
    {
        scanf("%d",&a[i]);
    }
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
            if(a[j]>a[j+1])
            {
                b=a[j];
                a[j]=a[j+1];
                a[j+1]=b;
            }
        }
    }
    printf(" array in descending order manner : ");
    for(i=(n+1);i>=1;i--)
    {
        printf(" %d ",a[i]);
    }
}
```

## OUTPUT ::

```
khalsa-HP-Pro-3090-MT: ~/Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~$ cd Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ gcc descendingarray.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ ./a.out
enter the count you want in an array : 10
enter the numbers of the array : 4
7
6
5
2
1
3
9
10
8
array in descending order manner : 32573 10 9 8 7 6 5 4 3 2 1 khalsa
khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$
```

**FLOW CHART ::**



# SUM OF TWO MATRICES

```
#include<stdio.h>
void main()
{
    int A[3][3],B[3][3],i,j;
    int C[3][3];
    for(i=0;i<3;i++)
    for(j=0;j<3;j++)
    {
        printf("enter elements at location at %d%d ::",i,j);
        scanf("%d",&A[i][j]);
    }

    for(i=0;i<3;i++)
    for(j=0;j<3;j++)
    {
        printf("enter elements at location at %d%d ::",i,j);
        scanf("%d",&B[i][j]);
    }

    for(i=0;i<3;i++)
    {
        for(j=0;j<3;j++)
        {
            printf("%d ",A[i][j]);
        }
        printf("\n");
    }

    printf("\n");
    for(i=0;i<3;i++)
    {
        for(j=0;j<3;j++)
        {
            printf("%d ",B[i][j]);
        }
        printf("\n");
    }

    for(i=0;i<3;i++)
    for(j=0;j<3;j++)
    {
        C[i][j]=A[i][j]+B[i][j];
    }

    printf("\n sum of matrix are: \n");
    for(i=0;i<3;i++)
    {
        for(j=0;j<3;j++)
        {
            printf("%d ",C[i][j]);
        }
        printf("\n");
    }
}
```

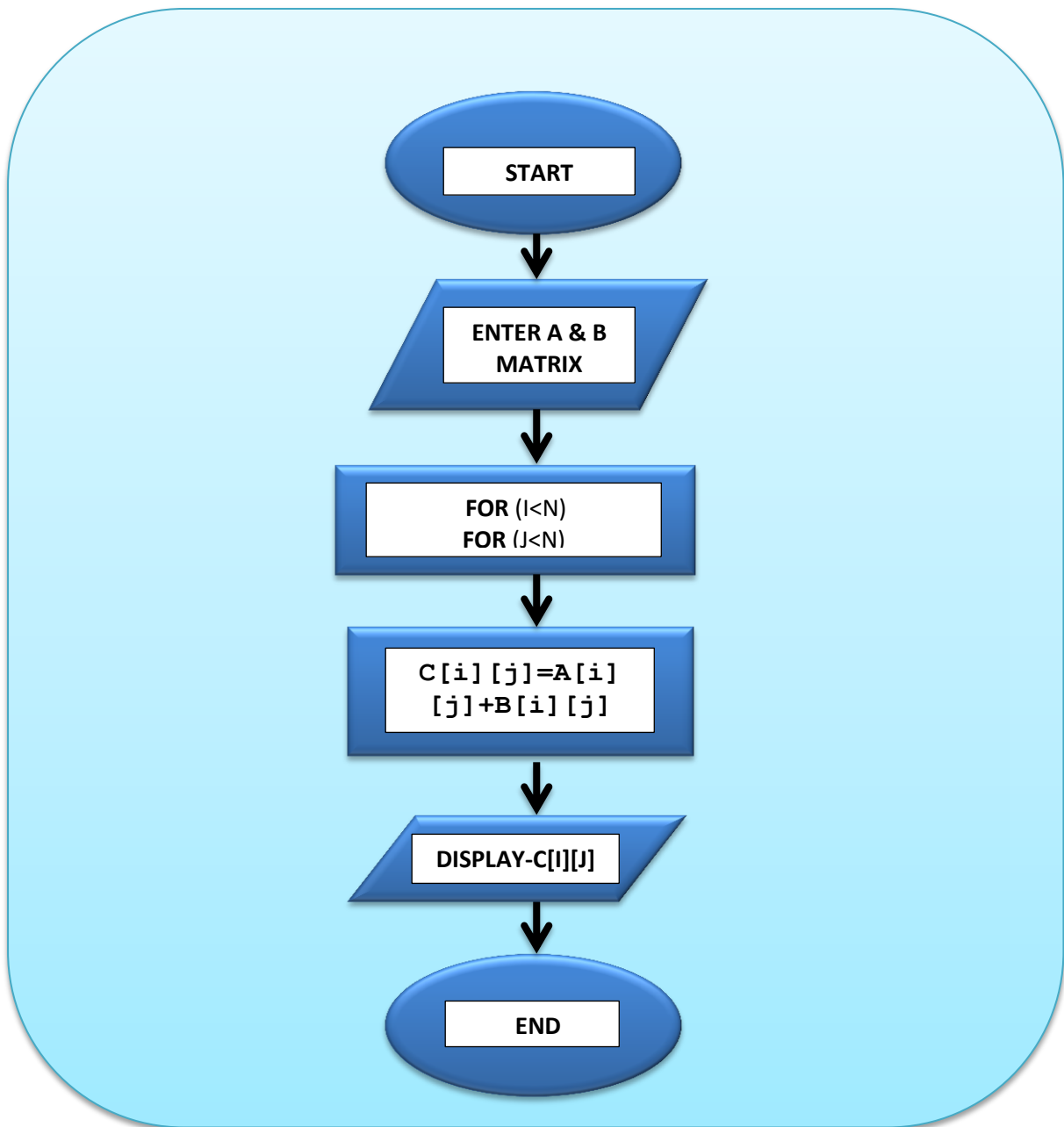
## OUTPUT ::

```
khalsa-HP-Pro-3090-MT: ~/Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~$ cd Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ gcc matrixadd.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ ./a.out
enter elements at location at 00 ::1
enter elements at location at 01 ::2
enter elements at location at 02 ::3
enter elements at location at 10 ::4
enter elements at location at 11 ::5
enter elements at location at 12 ::6
enter elements at location at 20 ::7
enter elements at location at 21 ::8
enter elements at location at 22 ::9
enter elements at location at 00 ::1
enter elements at location at 01 ::2
enter elements at location at 02 ::3
enter elements at location at 10 ::4
enter elements at location at 11 ::5
enter elements at location at 12 ::6
enter elements at location at 20 ::7
enter elements at location at 21 ::8
enter elements at location at 22 ::9
1      2      3
4      5      6
7      8      9

1      2      3
4      5      6
7      8      9

sum of matrix are:
2      4      6
8      10     12
14     16     18
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$
```

**FLOW CHART ::**



# DIFFERENCE BETWEEN TWO MATRICES

```
#include<stdio.h>
void main()
{
    int A[3][3],B[3][3],i,j;
    int C[3][3];
    for(i=0;i<3;i++)
    for(j=0;j<3;j++)
    {
        printf("enter elements at location at %d%d ::",i,j);
        scanf("%d",&A[i][j]);
    }

    for(i=0;i<3;i++)
    for(j=0;j<3;j++)
    {
        printf("enter elements at location at %d%d ::",i,j);
        scanf("%d",&B[i][j]);
    }

    for(i=0;i<3;i++)
    {
        for(j=0;j<3;j++)
        {
            printf("%d ",A[i][j]);
        }
        printf("\n");
    }

    printf("\n");
    for(i=0;i<3;i++)
    {
        for(j=0;j<3;j++)
        {
            printf("%d ",B[i][j]);
        }
        printf("\n");
    }

    for(i=0;i<3;i++)
    for(j=0;j<3;j++)
    {
        C[i][j]=A[i][j]-B[i][j];
    }

    printf("\n difference of matrix are: \n");
    for(i=0;i<3;i++)
    {
        for(j=0;j<3;j++)
        {
            printf("%d ",C[i][j]);
        }
        printf("\n");
    }
}
```

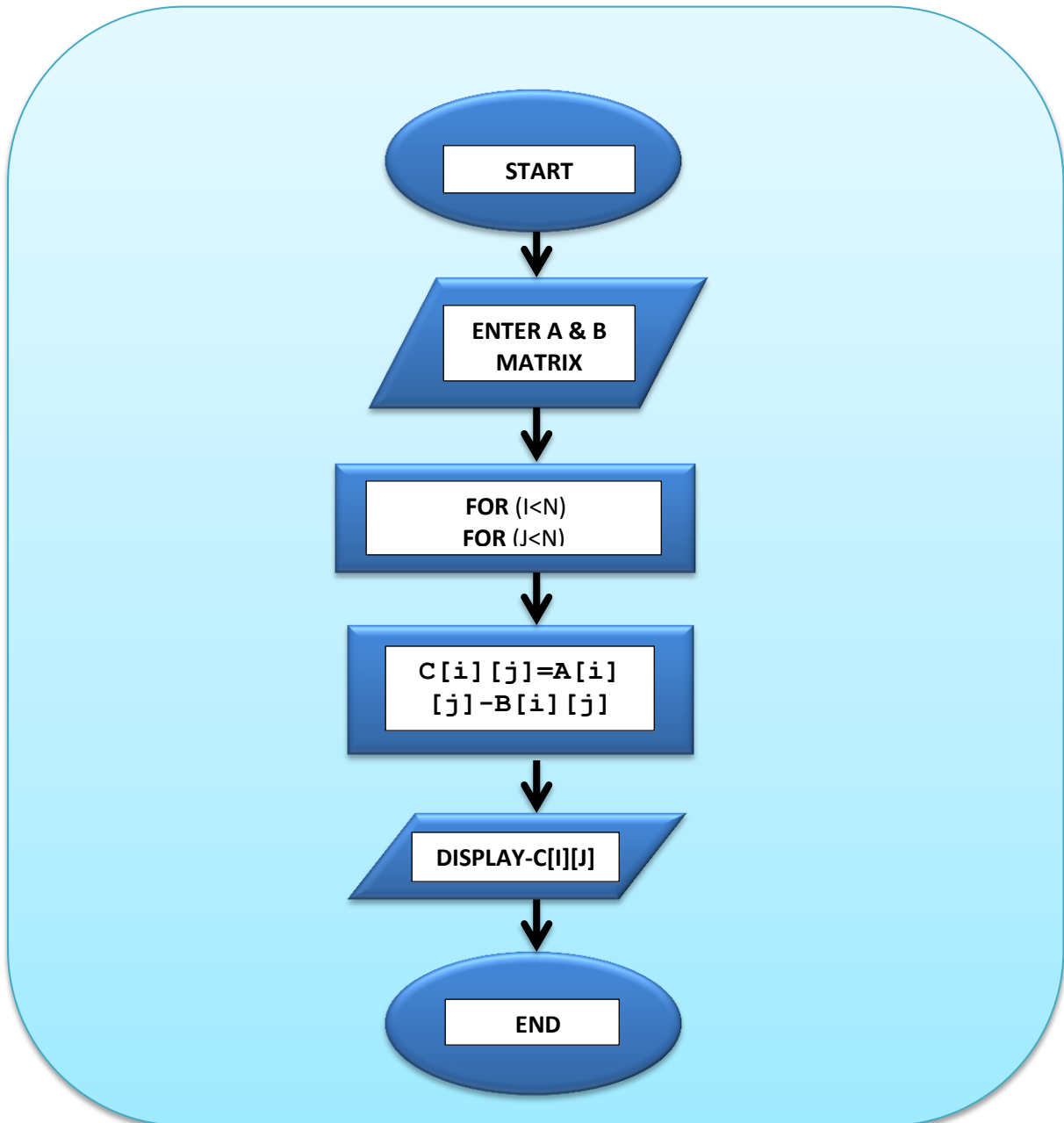
## OUTPUT ::

```
khalsa-HP-Pro-3090-MT: ~/Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~$ cd Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ gcc matrixsub.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ ./a.out
enter elements at location at 00 ::7
enter elements at location at 01 ::8
enter elements at location at 02 ::5
enter elements at location at 10 ::4
enter elements at location at 11 ::2
enter elements at location at 12 ::3
enter elements at location at 20 ::6
enter elements at location at 21 ::9
enter elements at location at 22 ::1
enter elements at location at 00 ::5
enter elements at location at 01 ::4
enter elements at location at 02 ::3
enter elements at location at 10 ::2
enter elements at location at 11 ::1
enter elements at location at 12 ::8
enter elements at location at 20 ::7
enter elements at location at 21 ::9
enter elements at location at 22 ::6
7      8      5
4      2      3
6      9      1

5      4      3
2      1      8
7      9      6

sum of matrix are:
2      4      2
2      1     -5
-1     0     -5
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$
```

## ***FLOW CHART ::***





# PRODUCT OF TWO MATRICES

```
#include<stdio.h>
void main()
{
    int A[10][10],B[10][10],i,j,m,n,p,q,k;
    int C[10][10];
    printf("enter the number of rows & columns of first matrix
%d%d ::",m,n);
    scanf("%d%d",&m,&n);
    printf("enter the number of rows & columns of second matrix
%d%d ::",p,q);
    scanf("%d%d",&p,&q);
    printf("enter the first matrix ::\n");
    for(i=0;i<m;i++)
    for(j=0;j<n;j++)
    {
        printf("enter elements at location at %d%d ::",i,j);
        scanf("%d",&A[i][j]);
    }
    printf("enter the second matrix ::\n");
    for(i=0;i<p;i++)
    for(j=0;j<q;j++)
    {
        printf("enter elements at location at %d%d ::",i,j);
        scanf("%d",&B[i][j]);
    }
    for(i=0;i<m;i++)
    {
        for(j=0;j<n;j++)
        {
            printf("%d ",A[i][j]);
        }
        printf("\n");
    }
    printf("\n");
    for(i=0;i<p;i++)
    {
        for(j=0;j<q;j++)
        {
            printf("%d ",B[i][j]);
        }
        printf("\n");
    }
    if(n==p)
    {
        for(i=0;i<m;i++)
        {
            for(j=0;j<q;j++)
            {
                C[i][j]=0;
                for(k=0;k<n;k++)
                C[i][j]=C[i][j]+(A[i][k]*B[k][j]);
            }
        }
        printf("\n multiplied matrix is: \n");
    }
}
```

```

        for(i=0;i<m;i++)
        {
            for(j=0;j<q;j++)
            {
                printf("%d ",C[i][j]);
            }
            printf("\n");
        }
    }
    else
        printf("\n matrix can't be multiplied \n");
}

```

## OUTPUT ::

```

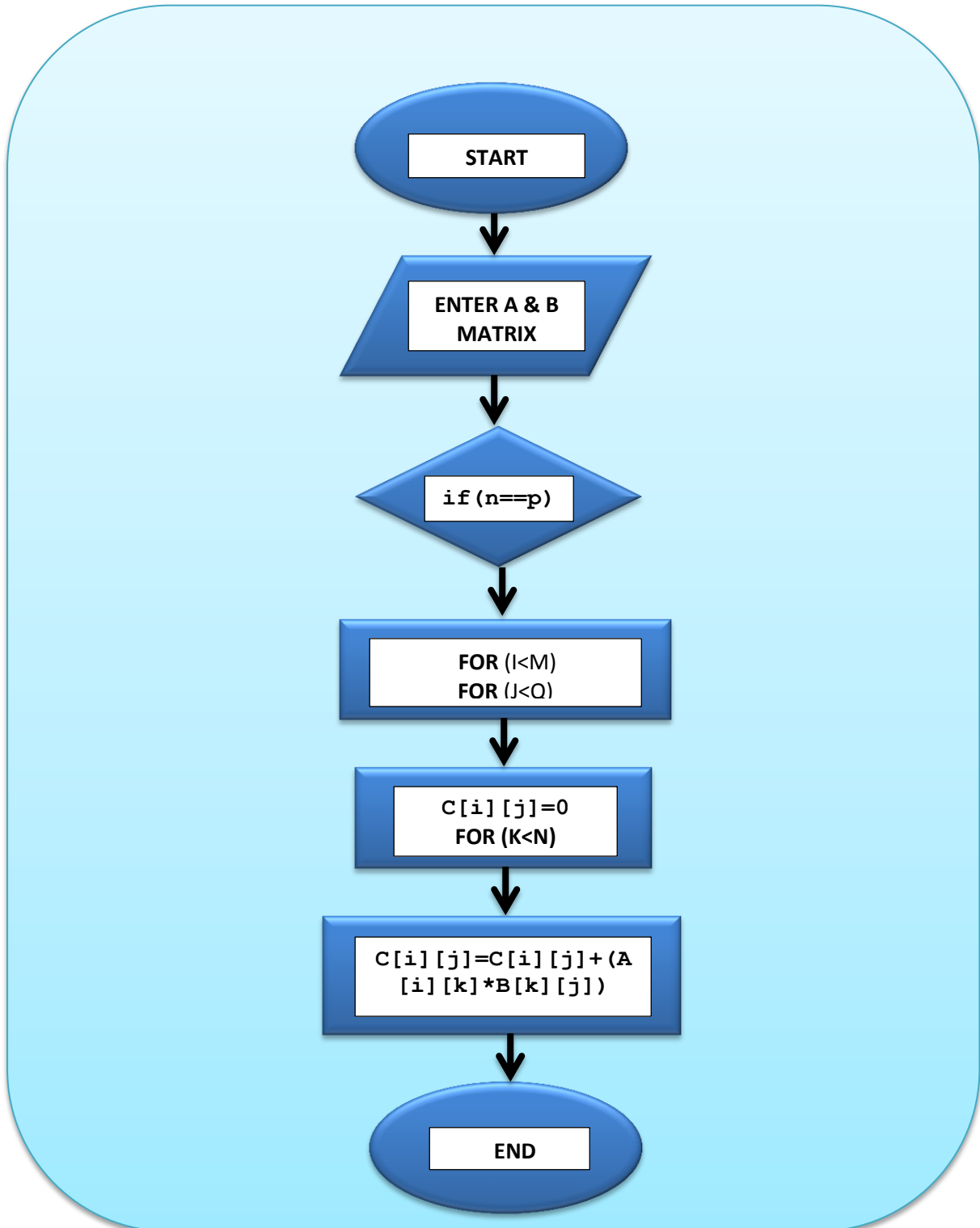
khalsa@khalsa-HP-Pro-3090-MT: ~/Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~$ cd Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ gcc matrixmult.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ ./a.out
enter the number of rows & columns of first matrix 32764253397952 ::2
3
enter the number of rows & columns of second matrix 32764253428160 ::3
2
enter the first matrix ::
enter elements at location at 00 ::1
enter elements at location at 01 ::2
enter elements at location at 02 ::3
enter elements at location at 10 ::4
enter elements at location at 11 ::5
enter elements at location at 12 ::6
enter the second matrix ::
enter elements at location at 00 ::6
enter elements at location at 01 ::5
enter elements at location at 10 ::4
enter elements at location at 11 ::3
enter elements at location at 20 ::2
enter elements at location at 21 ::1
1      2      3
4      5      6

6      5
4      3
2      1

multiplied matrix is:
20      14
56      41
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$

```

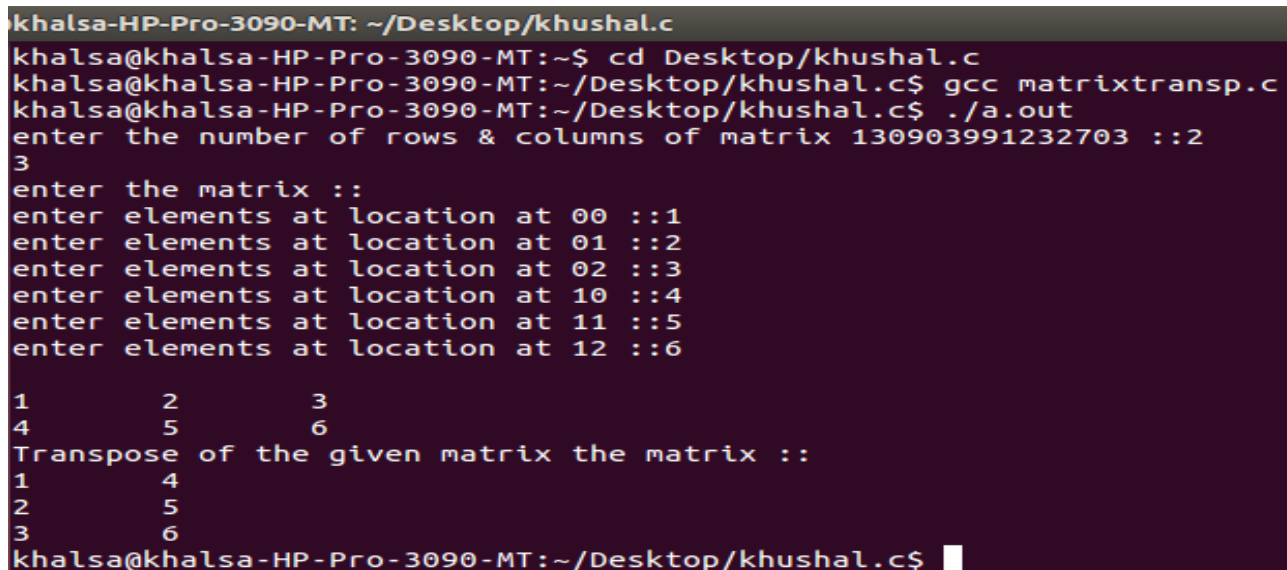
**FLOW CHART ::**



# TRANSPOSE OF A MATRIX

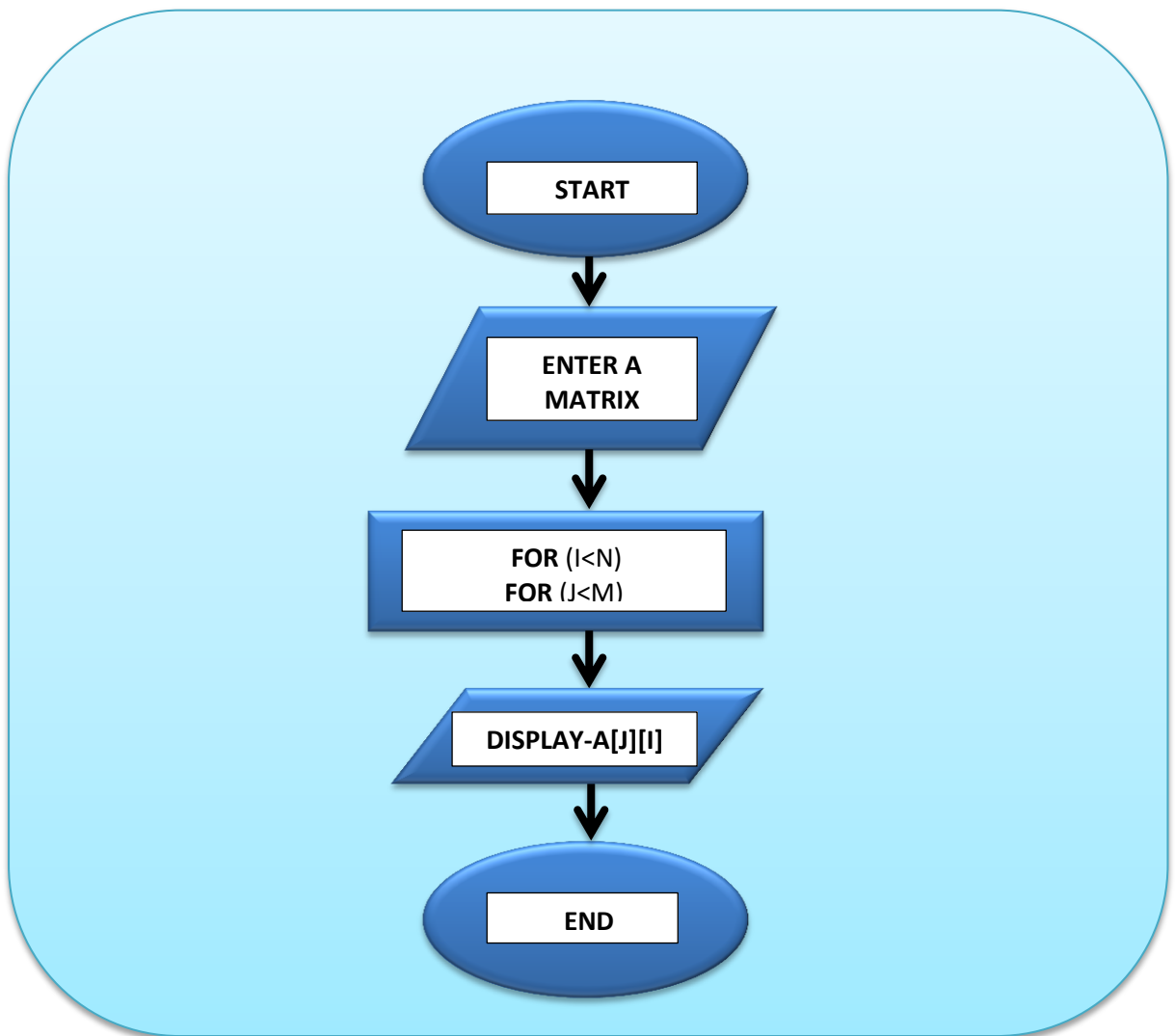
```
#include<stdio.h>
void main()
{
    int A[10][10],i,j,m,n;
    printf("enter the number of rows & columns of matrix %d%d\n",m,n);
    scanf("%d%d",&m,&n);
    printf("enter the matrix ::\n");
    for(i=0;i<m;i++)
    for(j=0;j<n;j++)
    {
        printf("enter elements at location at %d%d ::",i,j);
        scanf("%d",&A[i][j]);
    }
    printf("\n");
    for(i=0;i<m;i++)
    {
        for(j=0;j<n;j++)
        {
            printf("%d ",A[i][j]);
        }
        printf("\n");
    }
    printf("Transpose of the given matrix the matrix ::\n");
    for(i=0;i<n;i++)
    {
        for(j=0;j<m;j++)
        {
            printf("%d ",A[j][i]);
        }
        printf("\n");
    }
}
```

## OUTPUT ::



```
khalsa-HP-Pro-3090-MT: ~/Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~$ cd Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ gcc matrixtransp.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ ./a.out
enter the number of rows & columns of matrix 130903991232703 ::2
3
enter the matrix ::
enter elements at location at 00 ::1
enter elements at location at 01 ::2
enter elements at location at 02 ::3
enter elements at location at 10 ::4
enter elements at location at 11 ::5
enter elements at location at 12 ::6
1      2      3
4      5      6
Transpose of the given matrix the matrix ::
1      4
2      5
3      6
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$
```

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# SUM OF PRINCIPLE & SECONDARY DIAGONAL ELEMENTS

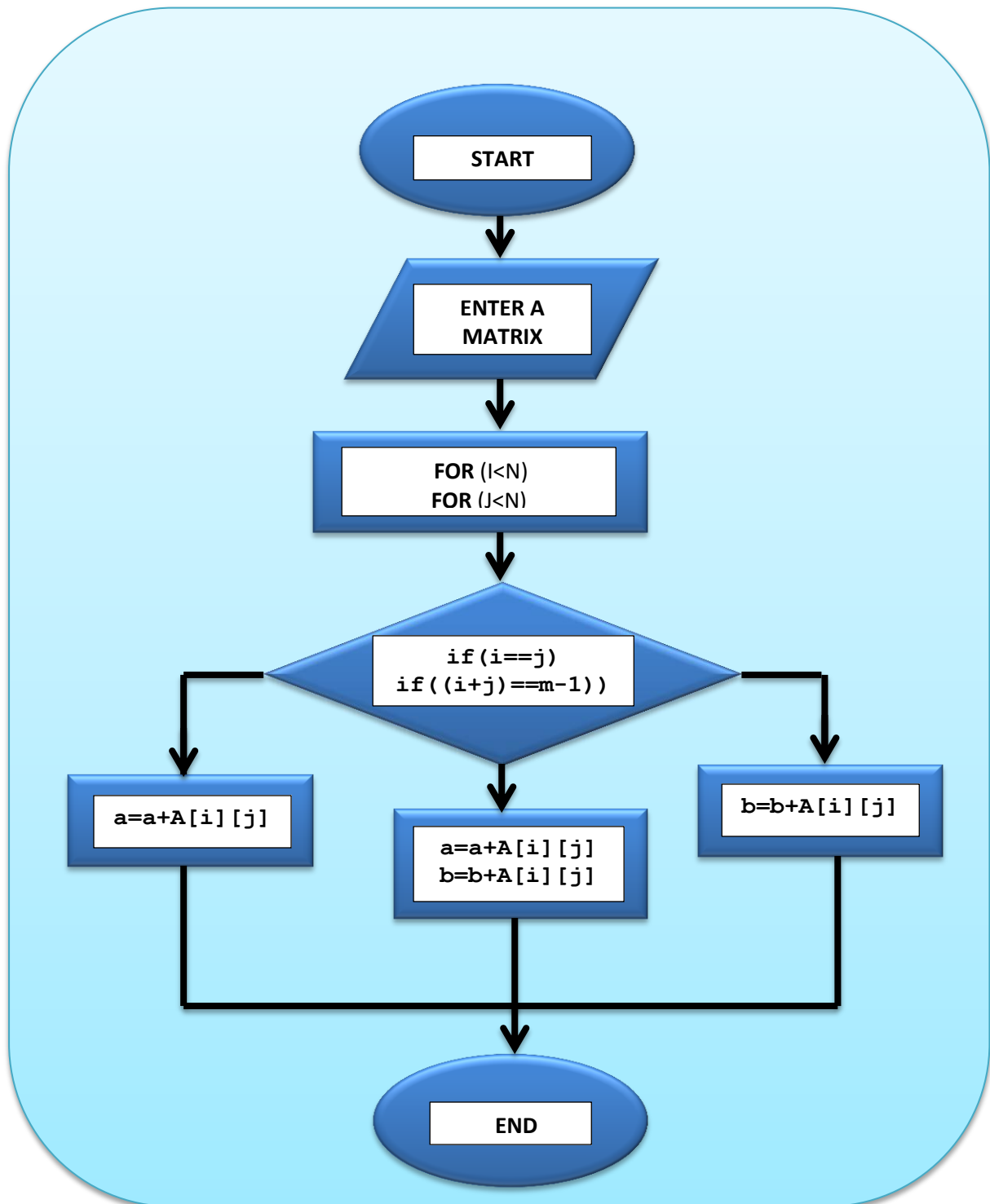
```
#include<stdio.h>
void main()
{
    int A[10][10],i,j,m,n,a=0,b=0;
    printf("enter the length of square matrix %d ::",m);
    scanf("%d",&m);
    printf("enter the matrix ::\n");
    for(i=0;i<m;i++)
    for(j=0;j<m;j++)
    {
        printf("enter elements at location at %d%d ::",i,j);
        scanf("%d",&A[i][j]);
    }
    printf("\n");
    for(i=0;i<m;i++)
    {
        for(j=0;j<m;j++)
        {
            printf("%d ",A[i][j]);
        }
        printf("\n");
    }
    for(i=0;i<m;i++)
    {
        for(j=0;j<m;j++)
        {
            if((i==j) && ((i+j)==(m-1)))
            {
                a=a+A[i][j];
                b=b+A[i][j];
            }
            else if(i==j)
                a=a+A[i][j];
            else if((i+j)==(m-1))
                b=b+A[i][j];
        }
    }
    printf("sum of the principle diagonal elements :: %d\n",a);
    printf("sum of the secondary diagonal elements :: %d\n",b);
}
```

## OUTPUT ::

```
khalsa@khalsa-HP-Pro-3090-MT: ~/Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ gcc matrixdiag.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ ./a.out
enter the length of square matrix 32765 ::3
enter the matrix ::
enter elements at location at 00 ::1
enter elements at location at 01 ::2
enter elements at location at 02 ::3
enter elements at location at 10 ::4
enter elements at location at 11 ::5
enter elements at location at 12 ::6
enter elements at location at 20 ::7
enter elements at location at 21 ::8
enter elements at location at 22 ::9

1      2      3
4      5      6
7      8      9
sum of the principle diagonal elements :: 15
sum of the secondary diagonal elements :: 15
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$
```

## FLOW CHART ::

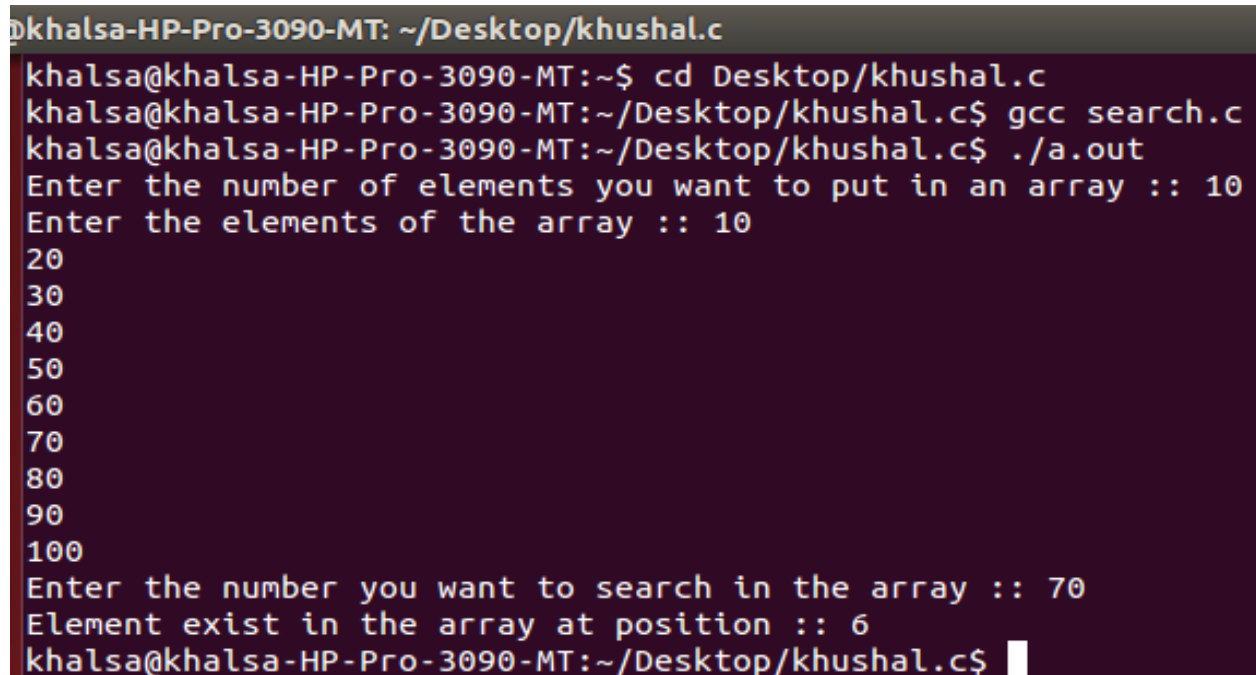




# LINEAR SEARCH

```
#include<stdio.h>
void main()
{
    int A[100],m,i,a,f=0;
    printf("Enter the number of elements you want to put in an
array :: ");
    scanf("%d",&m);
    printf("Enter the elements of the array :: ");
    for(i=0;i<m;i++)
        scanf("%d",&A[i]);
    printf("Enter the number you want to search in the array ::
");
    scanf("%d",&a);
    for(i=0;i<m;i++)
    {
        if(a==A[i])
        {
            f=1;
            break;
        }
        else
            f=0;
    }
    if(f==1)
        printf("Element exist in the array at position :: %d
\n",i);
    else
        printf("Element does not exist in the array :: ");
}
```

## OUTPUT ::



```
khalsa@khalsa-HP-Pro-3090-MT: ~/Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~$ cd Desktop/khushal.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ gcc search.c
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$ ./a.out
Enter the number of elements you want to put in an array :: 10
Enter the elements of the array :: 10
20
30
40
50
60
70
80
90
100
Enter the number you want to search in the array :: 70
Element exist in the array at position :: 6
khalsa@khalsa-HP-Pro-3090-MT:~/Desktop/khushal.c$
```

**FLOW CHART ::**

