

**01.)**

**AIM**:- To display Fibonacci series up to a range.

#include<stdio.h>

main(){

int n,a=0,b=1,c;

printf("Enter The Range:-\t");

scanf("%d",&n);

printf("\nFirst %d Fibonacci numbers are:-\n\n",n);

for(int i=0;i<=n;i++){

printf("%d\t",a);

c=a+b;

a=b;

b=c;

}

}

**OUTPUT :-**

Enter The Range:- 12

First 12 Fibonacci numbers are:-

0 1 1 2 3 5 8 13 21 34 55 89 144

**02.)**

**AIM:-** To read n numbers and display it.

#include<stdio.h>

main(){

int n;

printf("Enter number of elements:-\t");

scanf("%d",&n);

int a[n];

for(int i=0;i<n;i++){

printf("a[%d]=",i);

scanf("%d",&a[i]);

}

printf("\nYou entered:-\n");

for(int i=0;i<n;i++){

printf("%d\t",a[i]);

}

}

***OUTPUT :-***

***OUTPUT:-***

Enter number of elements:- 12

a[0]=1

a[1]=2

a[2]=3

a[3]=4

a[4]=5

a[5]=6

a[6]=7

a[7]=8

a[8]=9

a[9]=10

a[10]=11

a[11]=12

You entered:-

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

***03.)***

**AIM:-**To demonstrate the concept of one dimentional array finding the sum of array elements.

#include<stdio.h>

main(){

int n,sum=0;

printf("Enter number of elements:-\t");

scanf("%d",&n);

int a[n];

for(int i=0;i<n;i++){

printf("a[%d]=",i);

scanf("%d",&a[i]);

}

for(int i=0;i<n;i++){

sum+=a[i];

}

printf("\nSum of array is:- %d\n",sum);

}

***OUTPUT :-***

Enter number of elements:- 6

a[0]=10

a[1]=12

a[2]=32

a[3]=12

a[4]=45

a[5]=54

Sum of array is:- 165

***04.)*** To insert an element in an array.

#include <stdio.h>

int main()

{

int array[50], pos, n, value;

printf("Enter number of elements in the array:-\n");

scanf("%d", &n);

printf("Enter %d elements:-\n", n);

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

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

printf("Enter the location element to be inserted:-\n");

scanf("%d", &pos);

printf("Please enter the value:-\n");

scanf("%d", &value);

for (int i=n-1;i>=pos-1;i--){

array[i+1] = array[i];

}

array[pos-1] = value;

printf("New array is:-\n");

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

printf("%d\t", array[i]);

}

***OUTPUT :-***

Enter number of elements in the array:-

10

Enter 10 elements:-

1

2

3

4

5

6

7

8

9

10

Enter the location element to be inserted:-

5

Please enter the value:-

999

New array is:-

1 2 3 4 999 5 6 7 8 9 10

***05.)***

**AIM:-**To delete an element from an array.

#include <stdio.h>

int main()

{

int array[100],pos,n;

printf("Enter number of elements in array\n");

scanf("%d", &n);

printf("Enter %d elements\n", n);

for (int i=0;i<n;i++){

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

}

printf("Enter the location where to delete element\n");

scanf("%d", &pos);

if (pos>=n+1)

printf("Deletion not possible.\n");

else

{

for (int i=pos-1;i<n-1;i++) {

array[i] = array[i+1];

}

printf("Resultant array is\n");

for(int i=0;i<n-1;i++){

printf("%d\t", array[i]);

}

}

}

***OUTPUT :-***

Enter number of elements in array

8

Enter 8 elements

1

2

3

4

5

6

7

8

Enter the location where to delete element

4

Resultant array is

1 2 3 5 6 7 8