1. Read and Print elements of an array

#include <stdio.h>

void main()

{

int arr[10];

int i;

printf("\n\nRead and Print elements of an array:\n");

printf("-----------------------------------------\n");

printf("Input 10 elements in the array :\n");

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

{

printf("element - %d : ",i);

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

}

printf("\nElements in array are: ");

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

{

printf("%d ", arr[i]);

}

printf("\n");

}

**2.** Write a program in C to read n number of values in an array and display it in reverse order.

#include <stdio.h>

void main()

{

int i,n,a[100];

printf("\n\nRead n number of values in an array and display it in reverse order:\n");

printf("------------------------------------------------------------------------\n");

printf("Input the number of elements to store in the array :");

scanf("%d",&n);

printf("Input %d number of elements in the array :\n",n);

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

{

printf("element - %d : ",i);

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

}

printf("\nThe values store into the array are : \n");

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

{

printf("% 5d",a[i]);

}

printf("\n\nThe values store into the array in reverse are :\n");

for(i=n-1;i>=0;i--)

{

printf("% 5d",a[i]);

}

printf("\n\n");

}

3. Write a program in C to find the sum of all elements of the array.

#include <stdio.h>

void main()

{

int a[100];

int i, n, sum=0;

printf("\n\nFind sum of all elements of array:\n");

printf("--------------------------------------\n");

printf("Input the number of elements to be stored in the array :");

scanf("%d",&n);

printf("Input %d elements in the array :\n",n);

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

{

printf("element - %d : ",i);

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

}

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

{

sum += a[i];

}

printf("Sum of all elements stored in the array is : %d\n\n", sum);

}

4. Write a program in C to copy the elements of one array into another array.

#include <stdio.h>

void main()

{

int arr1[100], arr2[100];

int i, n;

printf("\n\nCopy the elements one array into another array :\n");

printf("----------------------------------------------------\n");

printf("Input the number of elements to be stored in the array :");

scanf("%d",&n);

printf("Input %d elements in the array :\n",n);

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

{

printf("element - %d : ",i);

scanf("%d",&arr1[i]);

}

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

{

arr2[i] = arr1[i];

}

printf("\nThe elements stored in the first array are :\n");

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

{

printf("% 5d", arr1[i]);

}

printf("\n\nThe elements copied into the second array are :\n");

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

{

printf("% 5d", arr2[i]);

}

printf("\n\n");

}

5. Write a program in C to find the maximum and minimum element in an array.

#include <stdio.h>

void main()

{

int arr1[100];

int i, mx, mn, n;

printf("\n\nFind maximum and minimum element in an array :\n");

printf("--------------------------------------------------\n");

printf("Input the number of elements to be stored in the array :");

scanf("%d",&n);

printf("Input %d elements in the array :\n",n);

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

{

printf("element - %d : ",i);

scanf("%d",&arr1[i]);

}

mx = arr1[0];

mn = arr1[0];

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

{

if(arr1[i]>mx)

{

mx = arr1[i];

}

if(arr1[i]<mn)

{

mn = arr1[i];

}

}

printf("Maximum element is : %d\n", mx);

printf("Minimum element is : %d\n\n", mn);

}