1.Write a C program to display 10 array elements with addresses.

#include <stdio.h>

int main()

{

int arr[10],i;

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

printf("Enter the values : ");

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

}

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

printf("array elements with addresses : %d%d\n",arr[i],&arr[i]);

}

return 0;

}

2.Write a C program to display 10 array elements in ascending order.

#include <stdio.h>

int main(){

int arr[10],i,n,j,a;

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

printf("Enter values : ");

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

}

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

for (j=i+1;j<10;j++){

if(arr[i]>arr[j]){

a=arr[i];

arr[i]=arr[j];

arr[j]=a;

}

}

}

printf("array elements in ascending order is : ");

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

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

}

return 0;

}

3. Write a C program to find the average of both largest element and the smallest element of the array.

#include<stdio.h>

int main ()

{

int arr[10], n, i, j, a, b;

float avg;

printf ("Enter the number of elements : ");

scanf ("%d", &n);

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

{

printf ("Enter values : ");

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

}

a = arr[0];

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

{

if (arr[i] > a)

a = arr[i];

}

printf ("The highest number of the array is %d", a);

b = arr[0];

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

{

if (arr[i] < b)

{

b = arr[i];

}

}

printf ("\nThe smallest number of the array is %d", b);

avg = (float) (a + b) / 2;

printf

("\nthe average of both largest element and the smallest element of the array is %.2f",

avg);

return 0;

}

4. Write a C program to find the highest number of array elements and check whether it is even or odd number.

#include<stdio.h>

int

main ()

{

int arr[10], n, i, j, a;

float avg;

printf ("Enter the number of elements : ");

scanf ("%d", &n);

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

{

printf ("Enter values : ");

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

}

a = arr[0];

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

{

if (arr[i] > a)

a = arr[i];

}

printf ("The highest number of the array is %d", a);

if (a % 2 == 0)

{

printf ("\nThe highest number of the array is an even number.");

}

else

printf ("\nThe highest number of the array is an odd number.");

return 0;

}

5. Write a C program to count the number of even and odd numbers in the 20 elements array.

#include<stdio.h>

int main()

{

int i, arr[20];

int Even\_Count = 0, Odd\_Count = 0;

for(i = 0; i < 20; i++)

{

printf("\nEnter the Array Elements\n");

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

}

for(i = 0; i < 20; i ++)

{

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

{

Even\_Count= Even\_Count+1;

}

else

{

Odd\_Count=Odd\_Count+1;

}

}

printf("\n Total Number of Even Numbers in this Array = %d ", Even\_Count);

printf("\n Total Number of Odd Numbers in this Array = %d ", Odd\_Count);

return 0;

}