Assignment no 14

1. #include<stdio.h>

int sum(int);

int main(){

printf("Enter values in elements : ");

printf("sum of values in array is %d",sum(10));

return 0;

}

int sum(int n){

int arr[n],sum=0;

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

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

sum=sum+arr[i];

}

return sum;

}

2. #include<stdio.h>

int sum(int);

int main(){

printf("Enter values in elements : ");

printf("sum of values in array is %d",sum(10));

return 0;

}

int sum(int n){

int arr[n],sum=0;

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

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

sum=sum+arr[i];

}

return sum/10;

}

3. #include<stdio.h>

void sum(int);

int main(){

printf("Enter values in elements : ");

sum(10);

return 0;

}

void sum(int n){

int arr[n],sum\_of\_odd=0,sum\_of\_even=0,i;

for(i=0;i<=9;i++){

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

if(arr[i]%2){

sum\_of\_odd=sum\_of\_odd+arr[i];

}

else{

sum\_of\_even=sum\_of\_even+arr[i];

}

}

printf("sum of all odd numbers in an array is %d \n",sum\_of\_odd);

printf("and sum of all even numbers in array is %d",sum\_of\_even);

}

4.#include<stdio.h>

void sum(int);

int main(){

printf("Enter values in elements : ");

sum(10);

return 0;

}

void sum(int n){

int arr[n],sum\_of\_odd=0,sum\_of\_even=0,i,j;

for(i=0;i<=9;i++){

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

}

for(i=1;i<=9;i++){

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

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

arr[j]=arr[i];

}

else{

arr[i]=arr[j];

}

}

}

printf("The largest number in an array is \n%d ",arr[9]);

}

5. #include<stdio.h>

void sum(int);

int main(){

printf("Enter values in elements : ");

sum(10);

return 0;

}

void sum(int n){

int arr[n],sum\_of\_odd=0,sum\_of\_even=0,i,j;

for(i=0;i<=9;i++){

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

}

for(i=1;i<=9;i++){

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

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

arr[j]=arr[i];

}

else{

arr[i]=arr[j];

}

}

}

printf("The smallest number in an array is \n%d ",arr[9]);

}

6. #include <stdio.h>

int main(){

int i, j, a, n, arr[30];

printf("Enter the value of N \n");

scanf("%d", &n);

printf("Enter the numbers \n");

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

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

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

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

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

a = arr[i];

arr[i] = arr[j];

arr[j] = a;

}

}

}

printf("The numbers arranged in ascending order are given below \n");

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

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

}

7. #include<stdio.h>

int main(){

int i,j,a,number[10];

printf ("Enter the numbers \n");

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

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

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

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

if (number[i] < number[j]){

a = number[i];

number[i] = number[j];

number[j] = a;

}

}

}

printf ("%10d\n",number[i]);

printf ("The 2nd largest number is = %d\n", number[1]);

}

8. #include<stdio.h>

int main(){

int i,j,a,counter,ave,number[10];

printf ("Enter the numbers \n");

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

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

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

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

if (number[i] < number[j]){

a = number[i];

number[i] = number[j];

number[j] = a;

}

}

}

printf ("The 2nd smallest number is = %d\n", number[10-2]);

}

9. #include<stdio.h>

int reverse(int);

int main(){

int n;

printf("Enter the range : ");

scanf("%d",&n);

printf("Enter the values ");

reverse(n);

return 0;

}

int reverse(int n){

int arr[n],i;

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

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

}

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

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

}

}

10. #include<stdio.h>

void store(int);

int main(){

int n;

printf("Enter the no of elements : ");

scanf("%d",&n);

store(n);

return 0;

}

void store(int n){

int arr1[n],arr2[n],i;

printf("Enter the values : ");

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

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

}

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

arr2[i]=arr1[i];

}

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

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

}

}