Assignment – 14

1. Write a program to calculate the sum of numbers stored in an array of size 10. Take

array values from the user ?

#include<stdio.h>

int main(){

int a[10],sum=0;

printf("enter the numbers");

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

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

}

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

sum= sum+a[i];

}

printf(" some of value is %d\n",sum);

return 0;

}

Output

enter the numbers1

2

3

4

5

6

7

1

21

2

1

2

12

21

some of value is 52

2. Write a program to calculate the average of numbers stored in an array of size 10.

Take array values from the user ?

Solve –

#include<stdio.h>

int main(){

int a[10],sum=0;

float avg;

printf("enter the numbers");

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

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

}

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

sum= sum+a[i];

}

avg = sum/10.0;

printf(" some of value is %f\n",avg);

return 0;

}

Output –

enter the numbers2

3

2

3

5

4

6

3

2

13

3

4

3

some of value is 3.500000

3. Write a program to calculate the sum of all even numbers and sum of all odd

numbers, which are stored in an array of size 10. Take array values from the user ?

solve –

#include<stdio.h>

int main(){

int a[10],i,se=0,so=0;

printf("enter the numbers");

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

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

}

for( int i=0; i<=a[i]; i++){

if(a[i]%2==0){

se=se+a[i];

}

else{

so =so+a[i];

}

}

printf("some of even%d\n",se);

printf(" some of odd%d\n",so);

return 0;

}

Output-

enter the numbers1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16some of even 12

some of odd 10

4. Write a program to find the greatest number stored in an array of size 10. Take array

values from the user ?

solve

#include<stdio.h>

int main(){

int a[10],

max = -999999;

printf("enter the number");

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

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

}

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

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

if(max<a[i])

max=a[i];

}

}

printf(" the gretest number is %d\n",max);

return 0;

}

Output –

enter the number2

3

4

2

1

5

4

3

8

5

6

3

the gretest number is 8

5. Write a program to find the smallest number stored in an array of size 10. Take array

values from the user ?

solve -

#include<stdio.h>

int main()

{

int a[10] = { 2,45, 34, 75, 34, 78,65,33, 24,56 };

int i, min= 100;

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

if(min>=a[i])

min=a[i];

}

printf(" the lowest number is %d",min);

return 0;

}

Ouput -

the lowest number is 2

6. Write a program to sort elements of an array of size 10. Take array values from the

User ?

Solve –

#include<stdio.h>

int main(){

int a[5]={ 2,1,3,4,5};

int i,j;

for( i=0; i<5; i++){

for(j= i+1; j<5; j++){

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

int temp =a[i];

a[i]=a[j];

a[j]=temp;

}

}

}

for( i=0; i<5; i++){

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

}

return 0;

}

Output –

1

2

3

4

5

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

values from the user ?

solve –

1

2

3

4

5

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

order. Take array values from the user ?

solve –

#include<stdio.h>

int main(){

int a[5]={ 1,2,3,4,5};

for( int i=4; i>=0; i--){

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

}

return 0;

}

Output –

5

4

3

2

1