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

Ans #include<stdio.h>

int main()

{

int a[10],i,sum=0;

printf("Enter 10 Numbers: ");

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

{

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

sum=sum+a[i];

}

printf("Sum is %d",sum);

return 0;

}

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

Ans #include<stdio.h>

int main()

{

int a[10],i,sum=0;

float avg;

printf("Enter 10 Numbers: ");

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

{

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

sum=sum+a[i];

}

avg=sum/10.0;

printf("Average is %f",avg);

return 0;

}

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.

Ans #include<stdio.h>

int main()

{

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

printf("Enter 10 Numbers: ");

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

{

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

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

se=se+a[i];

else

so=so+a[i];

}

printf("Sum of all even numbers: %d",se);

printf("\nSum of all odd numbers: %d",so);

return 0;

}

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

Ans #include<stdio.h>

int main()

{

int a[10],i,max=-99999;

printf("Enter 10 Numbers: ");

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

{

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

if(max<a[i])

max=a[i];

}

printf("Greatest Number is %d",max);

return 0;

}

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

Ans #include<stdio.h>

int main()

{

int a[10],i,x=99999;

printf("Enter 10 Numbers: ");

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

{

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

if(x>a[i])

x=a[i];

}

printf("Smallest Number is %d",x);

return 0;

}

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

Ans #include<stdio.h>

int main()

{

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

printf("Enter 10 Numbers: ");

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

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

for(i=0;i<=8;i++)

{

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

{

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

{

x=a[i];

a[i]=a[j];

a[j]=x;

}

}

}

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

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

return 0;

}

7. Write a program to find second largest in an array.Take array values from the user.

Ans #include<stdio.h>

int main()

{

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

printf("Enter 10 Numbers: ");

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

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

for(i=0;i<=8;i++)

{

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

{

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

{

x=a[i];

a[i]=a[j];

a[j]=x;

}

}

}

printf("Second Largest number is %d ",a[8]);

return 0;

}

8. Write a program to find the second smallest number in an array.Take array values from the user.

Ans #include<stdio.h>

int main()

{

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

printf("Enter 10 Numbers: ");

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

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

for(i=0;i<=8;i++)

{

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

{

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

{

x=a[i];

a[i]=a[j];

a[j]=x;

}

}

}

printf("Second Smallest number is %d ",a[1]);

return 0;

}

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.

Ans #include<stdio.h>

int main()

{

int a[10],i;

printf("Enter 10 Numbers: ");

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

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

for(i=9;i>=0;i--)

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

return 0;

}

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

Ans #include<stdio.h>

int main()

{

int a[10];

int b[10],i;

printf("Enter 10 Numbers: ");

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

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

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

{

b[i]=a[i];

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

}

return 0;

}