

Assignment NO.7

//program to print minimum and maximum number in array using pointer

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int a[10],size,i,max,min;
```

```
    printf("Enter size of array:");
```

```
    scanf("%d",&size);
```

```
    printf("Enter element in array:");
```

```
    for(i=0;i<size;i++)
```

```
    {
```

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

```
    }
```

```
    max=a[0];
```

```
    for(i=0;i<size;i++)
```

```
    {
```

```
        if(a[i]>max)
```

```
        {
```

```
            max=a[i];
```

```
        }
```

```
        printf("Maximum element of array: %d\n",max);
```

```
        min=a[0];
```

```
    }
```

```
    for(i=0;i<size;i++)
```

```
    {
```

```
        if(a[i]<min)
```

```
        {
```

```
            min=a[i];
```

```

    }

    printf("Minimum elemnt of array: %d\n",min);

}

}

```

//program to print search the given number in array

```
#include<stdio.h>
```

```
int main()
```

```

{
    int i,search,flag=1;
    int arr[10]={11,33,55,67,78,23,12,23,45,67};
    printf("Enter number to search: ");
    scanf("%d",&search);
    for(i=0;i<10;i++)
    {
        if(arr[i] == search)
        {
            flag==0;
            break;
        }
    }
    if(flag==1)
    {
        printf("The number is found at position: ",search);
        printf("%d",i);
    }

}
}

```

//program to print sum of all number in array

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int a[5],i,n,sum=0;
```

```
    printf("Enter element in array: \n");
```

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

```
    {
```

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

```
    }
```

```
    printf("Sum of array element is: \n");
```

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

```
    {
```

```
        sum=sum+a[i];
```

```
    }
```

```
    printf("Sum of element is= %d",sum);
```

```
}
```

//program to find odd and even number in array

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int a[20],i,n,e=0,o=0;
```

```
    printf("How many element you have want= ");
```

```

scanf("%d",&n);
for(i=0;i<n;i++)
{
    printf("Enter value:\n");
    scanf("%d",&a[i]);
}
for(i=0;i<n;i++)
if(a[i]%2==0)
{
    e=e+a[i];
    printf("The number is even:%d\n",a[i]);

}
else
{
    o=o+a[i];
    printf("The number is odd:\n",a[i]);
}
printf("The sum of the even number in array is:%d\n",e);
printf("The sum of the odd number in array is:%d\n",o);
}

```

//program to print alternate number in array

```

#include<stdio.h>

int main()
{
    int a[10],i,n;
    printf("How many elements you have want= \n");
    scanf("%d",&n);

```

```

for(i=0;i<n;i++)
{
    printf("Enter element in array: \n");
    scanf("%d",&a[i]);
}
printf("Alternate number in array: \n");
for(i=0;i<n;i=i+2)
{
    printf("The alternate number in array is: %d\n",a[i]);
}
}

```

//accept array and print only prime number from array

```

#include<stdio.h>

int main()
{
    int a[20],i,n,j,count=0;
    printf("How many element you have want: \n");
    scanf("%d",&n);
    for(i=0;i<n;i++)
    {
        printf("Enter element in array: \n");
        scanf("%d",&a[i]);
    }
    for(i=0;i<n;i++)
    {
        for(j=2;j<a[i];j++)
        {

```

```

        if(a[i]%j==0)
        {
            count++;
            break;
        }
    }
    if(count==0)
        printf("The %d is prime: \n",a[i]);
}
}

```

//Take to array and add sum in third array

```

#include<stdio.h>

int main()
{
    int a[5],b[5],sum[5],n,i;
    printf("Enter first array: \n");
    for(i=0;i<5;i++)
    {
        printf("Enter element in array: \n");
        scanf("%d",&a[i]);

    }
    printf("Enter element in second array:\n");
    for(i=0;i<5;i++)
    {
        printf("Enter an element\n");
        scanf("%d",&b[i]);
    }
}

```

```

    }
    for(i=0;i<5;i++)
    {
        sum[i]=a[i]+b[i];
        printf("%d",sum[i]);
    }
}

```

//program to merge two array

```

#include<stdio.h>
int main()
{
    int arr1[10],arr2[5],arr3[15],n,i,j=0;
    printf("Enter first array: ");
    for(i=0;i<10;i++)
    {
        scanf("%d",&arr1[i]);
    }
    printf("Enter second array: \n");
    for(i=0;i<5;i++)
    {
        scanf("%d",&arr2[i]);
    }
    //copy array

```

```

        for(i=0;i<10;i++)
        {
            arr3[j]=arr1[i];
            j++;
        }
        for(i=0;i<5;i++)
        {
            arr3[j]=arr2[i];
            j++;
        }
        printf("Element of array: ");
        for(i=0;i<15;i++)
        {
            printf("%d",arr3[i]);
        }
    }

```

//program to reverse the given array

```

#include<stdio.h>

int main()
{
    int arr[5],n,i;
    printf("Enter element in array: ");
    for(i=0;i<=4;i++)
    {

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

```



```
        printf("Element of reverse array: ");
        for(i=4;i>=0;i--)
        {
            printf("%d",arr[i]);
        }
    }
```

//program to sort the array

```
#include<stdio.h>
int main()
{
    int arr[10],n,i,j,temp;
    printf("Enter element in array: ");
    for(i=0;i<10;i++)
    {
        scanf("%d",&arr[i]);
    }
    for(i=0;i<5;i++)
    {
        for(j=i+1;j<5;j++)
        {
            if(arr[i]>arr[j])
            {
                temp=arr[i];
                arr[i]=arr[j];
                arr[j]=temp;
            }
        }
    }
```

```
        }  
    }  
    printf("Print sort array :");  
    for(i=0;i<5;i++)  
    {  
        printf("%d",arr[i]);  
    }  
}
```