1. Find maximum and minimum element of array?

```c
#include<stdio.h>
void main()
{
        int a[5]={100,12,56,43,489};
        if(a[0]>a[1] && a[0] > a[2] && a[0] > a[3] && a[0] > a[4] )
        {
                printf ("max nunber is %d \n", a[0]);
        }else
        {
                if(a[1]>a[2] && a[1] > a[3] && a[1] > a[4] )
                {
                                printf ("max nunber is %d \n", a[1]);
                }else{
                                if(a[2] > a[3] && a[2] > a[4] ){
                                        printf ("max nunber is %d \n", a[2]);

                                }else{
                                        if( a[3] > a[4] ){
                                                printf ("max nunber is %d \n", a[3]);
                                        }
                                        else{
                                                printf ("max nunber is %d \n", a[4]);
                                        }
                                }

                }
        }
}
```

2. Accept the element of array from user and sum all the element ?

```c
#include <stdio.h>
void main()
{
        int a[4];
        int ans;
        int i;
        printf(":\n Enter the any two value for addtion : \n");
        for(i=0;i<=4;i++)
        {
                printf("\nEnter number :  ");
```

```c
            scanf("%d",&a[i]);
            ans = ans  + a[i];
        }
        printf("Addition is :  %d \n",ans );
 }
```

3.Find all odd or even number from array?

```c
#include <stdio.h>
void main()
{       int i;
        int a[5]={12,61,42,46,77};
        for(i=0;i<4;i++)
        {
         printf("Even numbers in the array are - ");
      for (i = 0; i < 5; i++)
      {
        if (a[i] % 2 == 0)
        {
          printf("%d \t", a[i]);
        }
      }

      printf("\n Odd numbers in the array are -");
      for (i = 0; i <5; i++)
      {
        if (a[i] % 2 != 0)
        {
          printf("%d \t", a[i]);
        }
      }


}
}
```

4. Find all prime number in array

```c
#include <stdio.h>
void main()
{
        int a[10]={15,23,8,47,77,48,83,53,75,71};
        int i;
```

```c
        for(i=0;i<10;i++)
        {
                        int j=2;
                                int flag = 1 ;
                        while (j < a[i]) {
                         if (a[i] % j == 0) {
                            flag = 0;
                            break;
                         }
                         j++;
                        }
                        if (flag == 1) {
                           printf("\tPrime number is :  %d \n", a[i]);
                        }else {
                            printf("\tNon-prime is:  %d \n",a[i]);
                          }
                }


}
```

5 Create two arryas of integers. Add following Method
 a. Accept the data for an array.
 b. Display data of the array.
 c. summation of two array.

```c
#include<stdio.h>
void main()
{
        int a[1];
        int ans;
        int i;
        printf(":\n Enter the any two value for addtion : \n");
        for(i=0;i<=1;i++)
        {
                printf("\nEnter %d number   : ",i);
                scanf("%d",&a[i]);
                ans = ans  + a[i];
        }
        printf("\n 1st index element is  :  %d \n",a[0] );
        printf("\n 2nd index element is  :  %d \n",a[1] );
```

```
        printf("\n Summation of two array is  :  %d \n",ans );
}


 6. Write program to create an array of integers and perform following operations on that array like
finding the sum,average,maximum and minimum number in that array.accept the number of the
array from user.
#include <stdio.h>
void main ()
{
        int in[5];
        int i;
        int a[1];
        int m;
        int ans;
        printf("\t Menu is \n 1  Sum   \n 2 Max and min \n 3  avg  \n ");
        scanf("%d",&m);


        if(m==1){
                printf("\n Addtition program start :\n ");
                        printf(":\n Enter the any two value for addtion : \n");
                                for(i=0;i<=1;i++)
                                {
                                        printf("\nEnter number :  ");
                                        scanf("%d",&a[i]);
                                        ans = ans  + a[i];
                                }
                                printf("Addition is :  %d \n",ans );
        }
        else
        {
         if(m==2){
                                int s;
                                int mm[20];
                                int max=0;
                                printf("how many number you enter :   ");
                                scanf("%d",&s);
                                for(i=0;i<s;i++)
                                {
                                        printf("\nEnter the %d) value :   ",i);
                                        scanf("%d",&mm[i]);
                                }
```

```c
        for(i=0;i<s;i++)
        {
                if(mm[i]>max)
                {
                        max=mm[i];
                }
        }
        printf("max number is : %d \n",max);

}else
        {
        if(m== 3){
int a[5], sum=0, avg;
                                int i, n;

                                printf("how many number u will enter : ");
                                scanf("%d", &n);


                                printf("Enter numbers:\n");
                                for(i=0; i< n; i++)
                                {
                                 scanf("%d", &a[i]);
                                }


                                for(i=0; i< n; i++)
                                {
                                 sum = sum + a[i];
                                }


                                avg = sum/n;


                                printf("Sum is %d\n", sum);
                                printf("Average is %d", avg);
```

```c
        }else{
                printf("\n invalid option ");
        }

    }

 }
 }
```