Q1 Find the maximum and minimum number in the array

```c
#include<stdio.h>
void main () {
        int arr[5];
   int i;
 for(i=0;i<5;i++){
                printf("Enter the numbers:");
        scanf("%d",&arr[i]);
}
int min=arr[0];
for(i=1;i<5;i++){
        if(arr[i]<min){
                min=arr[i];
        }
}
printf("Minimum number:%d",min);
        int max=arr[0];
        for(i=1;i<5;i++){
                if(arr[i]>max){
                        max=arr[i];
                }
        }
        printf("\nMaximum number:%d",max);
}
```

2. Search the given number in array.

```c
#include<stdio.h>
void main(){
        int arr[5];
        int i,j,ele;
        printf("Enter the 5 numbers in the array:");
        for(i=0;i<5;i++){
                scanf("%d",&arr[i]);
        }
        printf("Enter the element you want to search:");
        scanf("%d",&ele);
        for(j=0;j<5;j++){
                if(arr[j]==ele){
                        printf("Number %d is at index:%d",ele,j);
                }
        }
}
```

3. Find sum of all numbers.

```c
#include<stdio.h>
void main(){
        int arr[5]={4,8,6,3};
        int i,sum=0;
        for(i=0;i<5;i++){
                sum=sum+arr[i];
        }
        printf("Sum of all numbers in a array: %d",sum);
}
```

Q4. Find odd and even among all the numbers

```c
#include<stdio.h>
int main(){
        int arr[4];
        int i,j;
        for(j=0;j<5;j++){
                printf("Enter the number:");
                scanf("%d",&arr[j]);
        }
        printf("Even:");
        for(i=0;i<=4;i++){
                if(arr[i]%2==0){
                        printf(" %d",arr[i]);
                }
        }
           int k;
                printf("\nOdd:");
                        for(k=0;k<=4;k++){
                        if(arr[k]%2!=0){
                        printf(" %d",arr[k]);
                                }
                }
}
```

5. Print alternate elements in array.

```c
#include<stdio.h>

int main(){
        int arr[5]={3,5,6,9,4};
         int i;
          for(i=0;i<5;i=i+2){
                        printf("%d",arr[i]);
         }
}
```

6. Accept array and print only prime numbers of array
```c
#include<stdio.h>
void main(){
        int arr[6]={3,6,8,5,3,7};
        int i,j,flag=0;
                for(i=0;i<6;i++){
                        for(j=2;j<arr[i];j++){
                                flag =1;
                        if(arr[i]%j==0)
                        {
                         flag = 0;
                         break;
                         }
}                       if(flag==1){
                        printf(" %d",arr[i]);


        }
        }
}
```

7. Take two array and add sum in third array.

```c
#include<stdio.h>
void main(){
        int arr[5]={1,3,4,5,6};
        int brr[5]={10,30,40,50,60};
        int sumarr[5];
            int i ,j;
        for(i=0;i<5;i++){
                        sumarr[i]=arr[i]+brr[i];
            }
            printf("Sum of two arrays:");
            for(j=0;j<5;j++){
                            printf(" %d",sumarr[j]);
            }
}
```

8. Merge two arrays.

```c
#include<stdio.h>
void main(){
        int arr[3]={1,2,3};
        int brr[3]={4,5,6};
        int i,j,k;
        int crr[6];
         printf("crr[6]={");
         for(i=0;i<3;i++)
{
                crr[i]= arr[i];
        }
```

```c
        for(j=0;j<3;j++){

                crr[j+3]=brr[j];
        }
        for(k=0;k<6;k++){
                        printf("%d",crr[k]);
        }
 printf("}");
}
```

9. Reverse the given array.

```c
#include<stdio.h>
void main(){
        int arr[4]={5,6,7,8};
        int i;
        for(i=3;i>-1;i--){
                        printf("%d",arr[i]);
        }
}
```

10. Sort the array.

```c
#include<stdio.h>
void main(){
        int arr[5]={10,40,30,50,20};
        int i,j;
        for(i=0;i<4;i++){
                        for(j=0;j<4-i;j++){
                        if(arr[j]>arr[j+1]){
                                int temp =arr[j];
                                arr[j]=arr[j+1];
                                arr[j+1]=temp;
                        }

                }
        }


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


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