Q1

```
// 1. Find minimum and maximum number in array.


#include<stdio.h>


void max(int arr[]){
    int max=arr[0];


    for(int i=0;i<6;i++)
     if(arr[i]>max)
        max= arr[i];
      printf("\nThe maximum element is %d.",max);
}


void min(int arr[]){
    int min=arr[0];


    for(int i=0;i<6;i++)
     if(arr[i]<min)
        min= arr[i];
      printf("\nThe minimum element is %d.",min);
}


int main(){
    int arr[]={2,5,9,7,6,8};


    printf("Original Array :");
    for(int i=0;i<6;i++)
     printf("%d ",arr[i]);
     max(arr);
     min(arr);


     return 0;
}
```

Q2

```
// 2. Search the given number in array.


#include<stdio.h>


int Search(int arr[],int num){
    for(int i=0;i<6;i++)
    if(arr[i]==num)
     return i;

     return -1;
}


int main(){
    int arr[]={2,5,9,7,6,8};
    int num;

    printf("Original Array :");
    for(int i=0;i<6;i++)
     printf("%d ",arr[i]);

     printf("\nEnter number you want to search in array :");
     scanf("%d",&num);

   int index= Search(arr,num) ;
    if(index !=-1)
    printf("\nThe given number %d is present at index %d: ",num,index);
    else
    printf("Not present in array");

    return 0;
}
```

Q3

```
// 3. Find sum of all numbers.
#include<stdio.h>

int sum(int arr[]){
    int sum=0;
    for(int i=0;i<10;i++)
     sum += arr[i];
     return sum;
}

int main(){
    int arr[]={1,2,3,4,5,6,7,8,9,10};

    printf("Original array : ");
    for(int i=0;i<10;i++)
     printf("%d ",arr[i]);

     printf("\nTotal sum of above array is %d.",sum(arr));

     return 0;
}
```

Q4

```
// 4. Find odd and even among the numbers.


#include<stdio.h>


void even(int arr[]){
    printf("\nEven elements in array : ");
    for(int i=0;i<10;i++)
    if(arr[i]%2==0)
     printf("%d ",arr[i]);
}
void odd(int arr[]){
    printf("\nOdd elements in array : ");
    for(int i=0;i<10;i++)
    if(arr[i]%2!=0)
     printf("%d ",arr[i]);
}


int main(){
    int arr[]={1,2,3,4,5,6,7,8,9,10};


    printf("Original array : ");
    for(int i=0;i<10;i++)
     printf("%d ",arr[i]);


     even(arr);
     odd(arr);


  return 0;


}
```

Q5

// 5. Print alternate elements in array.

```
#include<stdio.h>

void alternate(int arr[]){
    printf("\nAlternate elements of array : ");
    for(int i=1;i<10;i+=2)
     printf("%d ",arr[i]);
}

int main(){
    int arr[]={1,2,3,4,5,6,7,8,9,10};

    printf("Original array : ");
    for(int i=0;i<10;i++)
     printf("%d ",arr[i]);

     alternate(arr);

  return 0;

}
```

Q6

// 6. Accept array and print only prime numbers of array.

```
#include<stdio.h>

int isPrime(int num){
    if(num<2)
    return 0;

    for(int i=2;i<num;i++){
        if(num%i==0)
        return 0;
    }
    return 1;
}

void printPrime(int arr[]){
    printf("\nPrime numbers in the array: ");
    for(int i=0;i<5;i++)
    if(isPrime(arr[i]))
     printf("%d ", arr[i]);
}

int main(){
    int arr[5];
    printf("Enter elements in array :");
    for(int i=0;i<5;i++)
        scanf("%d",&arr[i]);
    printf("Original array : ");
    for(int i=0;i<5;i++)
     printf("%d ",arr[i]);
     printPrime(arr);
     return 0;
}
```

Q7

```
// 7. Take two array and add sum in third array
// Example-
// arr[5]= {1,2, 3, 4,5}
// brr[5]={10,20,30, 40, 50}
// crr[5]={11,22,33,44,55}

#include<stdio.h>
void sum(int arr[], int brr[]){
   int result[5];
   printf("Resultant array :");
   for(int i=0;i<5;i++){
   result[i]=arr[i]+brr[i];
   printf("%d ",result[i]);
}
}
int main(){
    int arr[5]= {1,2,3,4,5};
    int brr[5]={10,20,30,40,50};

    sum(arr,brr);
    return 0;
}
```

Q8

```
// 8. Merge two arrays

#include<stdio.h>

void merge(int arr1[],int arr2[]){
    int arr[9];
    int i,j;
    for( i=0;i<5;i++)
        arr[i]=arr1[i];

    for( j=0;j<4;j++)
     arr[i+j] = arr2[j];

     printf("Array after merging :");
     for(i=0;i<9;i++)
     printf("%d ",arr[i]);
}

int main(){
  int arr1[]={1,2,3,4,5};
  int arr2[]={6,7,8,9};

  merge(arr1,arr2);

 return 0;
}
```

Q9

```
// 9. Reverse the given array.
#include<stdio.h>

void reverse(int arr[]){
   printf("\nReversed array :");
   for(int i=5;i>0;i--)
   printf("%d ",arr[i]);
}
int main(){
   int arr[5];

   printf("Add elements in array :");
   for(int i=0;i<5;i++)
      scanf("%d",&arr[i]);

   printf("Original Array :");
   for(int j=0;j<5;j++)
   printf("%d ", arr[j]);

   reverse(arr);
   return 0;
}
```

Q10

```
// 10. Sort the array.

#include <stdio.h>

void sortArray(int arr[]) {
   for(int i=0;i<5;i++){
      for(int 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;
       }
      }
   }
}

int main() {
   int arr[] = {5, 2, 9, 1, 6};

   sortArray(arr);

   printf("Sorted array is :");
   for(int i=0;i<5;i++)
   printf("%d ",arr[i]);

   return 0;
}
```