Assignment No.7

Q1. Find minimum and maximum number in array.

-:*Code* :-

```
// Find minimum and maximum number in array
#include<stdio.h>
void main(){
	int n,i,great,small;
	printf("Enter the Size of array :");
	scanf("%d",&n);
	int arr[n];
	for(i=0;i<n;i++){
		scanf("%d",&arr[i]);
	}
	great=arr[0];
	small=arr[0];
	for(i=0;i<n;i++){
		if(arr[i]>great){
			great=arr[i];
		}
		if(arr[i]<small){
			small=arr[i];
		}
	}
	printf("Smallest number in array is :%d \n",small);
	printf("Greatest number in array is :%d \n",great);
}
```

Q2. Search the given number in array.

-:***Code*** :-

```
//Search the given number in array.
// Find minimum and maximum number in array
#include<stdio.h>
void main(){
	int n,i,search,check=0;
	printf("Enter the Size of array :");
	scanf("%d",&n);
	int arr[n];
	for(i=0;i<n;i++){
		scanf("%d",&arr[i]);
	}
	printf("Enter the Number you want to search :");
	scanf("%d",&search);

	for(i=0;i<n;i++){
		if(arr[i]==search){
			printf("The given search number is present on %d position in
array \n",i+1);
			check=1;
		}


	}
	if(check==0){
		printf("The number is not prasent in Array");
	}

}
```

Q3. Find sum of all numbers.

-:***Code*** :-

```
//Find sum of all numbers.

#include<stdio.h>
void main(){
	int n,i,sum=0;
	printf("Enter the Size of array :");
	scanf("%d",&n);
	int arr[n];
	for(i=0;i<n;i++){
		scanf("%d",&arr[i]);
	}


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

		sum=sum+arr[i];

	}

		printf("The Sum of numbers in Array is : %d",sum);


}
```

Q4. Find odd and even among the numbers.

-:***Code*** :-

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

#include<stdio.h>
void main(){
	int n,i,j=0,k=0;
	printf("Enter the Size of array :");
	scanf("%d",&n);
	int arr[n],even[n],odd[n];
	for(i=0;i<n;i++){
		scanf("%d",&arr[i]);
	}


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

		if(arr[i]%2==0){

			even[j]=arr[i];
			j++;

		}else{

			odd[k]=arr[i];
			k++;
		}
	}
	printf("\n The Even numbers in Array is : ");
	for(i=0;i<j;i++){
		printf(" %d",even[i]);
	}
	printf("\n The Odd numbers in Array is :");
	for(i=0;i<k;i++){
		printf(" %d",odd[i]);
	}


}
```

Q5. Print alternate elements in array.

-:***Code*** :-

```
//Print alternate elements in array

#include<stdio.h>
void main(){
	int n,i;
	printf("Enter the Size of array :");
	scanf("%d",&n);
	int arr[n],even[n],odd[n];
	for(i=0;i<n;i++){
		scanf("%d",&arr[i]);
	}


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

		if(arr[i]%2==0){

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

		}

	}
	for(i=0;i<n;i++){

		if(arr[i]%2!=0){

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

		}

	}


}
```

Q6. Accept array and print only prime numbers of array

-:*Code* :-

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

#include<stdio.h>
void main(){
	int n,i;
	printf("Enter the Size of array :");
	scanf("%d",&n);
	int arr[n],even[n],odd[n];
	for(i=0;i<n;i++){
		scanf("%d",&arr[i]);
	}


	for(i=1;i<n;i++){

		if(arr[i]==2||arr[i]==3||arr[i]==5||arr[i]==7){

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

		}
		if(arr[i]%2!=0&&arr[i]%3!=0&&arr[i]%5!=0&&arr[i]%7!=0){

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

		}

	}



}
```

Q7. Take two array and add sum in third array

-:***Code*** :-

```
//Take two array and add sum in third array

#include<stdio.h>
void main(){
	int n,i;
	printf("Enter the Size of array :");
	scanf("%d",&n);
	int arr1[n],arr2[n];
	printf("Enter the First Array:\n");
	for(i=0;i<n;i++){
		scanf("%d",&arr1[i]);
	}
	printf("Enter the Second Array:\n");
	for(i=0;i<n;i++){
		scanf("%d",&arr2[i]);
	}

	printf("Sum of Both Array is:\n");

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



			printf(" %d",arr1[i]+arr2[i]);



	}


}
```

Q8. Merge two arrays

-:***Code*** :-

```
// Merge two arrays

#include<stdio.h>
void main(){
	int n1,n2,i;
	printf("Enter the Size of array :");
	scanf("%d",&n1);
	int arr1[n1];
	printf("Enter the First Array:\n");
	for(i=0;i<n1;i++){
		scanf("%d",&arr1[i]);
	}
	printf("Enter the Size of array :");
	scanf("%d",&n2);
	int arr2[n2];
	printf("Enter the Second Array:\n");
	for(i=0;i<n2;i++){
		scanf("%d",&arr2[i]);
	}

	printf("Merge of Both Array is:\n");

	for(i=0;i<n1;i++){

			printf(" %d",arr1[i]);

	}
	for(i=0;i<n2;i++){

			printf(" %d",arr2[i]);

	}

}
```

Q9. Reverse the given array.

-:***Code*** :-

```
//Reverse the given array

#include<stdio.h>
void main(){
	int n,i;
	printf("Enter the Size of array :");
	scanf("%d",&n);
	int arr[n];
	for(i=0;i<n;i++){
		scanf("%d",&arr[i]);
	}


	for(i=n-1;i>=0;i--){

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

	}


}
```

Q9. Sort the array.

-:<u>Code</u> :-

```
//Sort the array

#include<stdio.h>
void main(){
	int n,i,j,temp;
	printf("Enter the Size of array :");
	scanf("%d",&n);
	int arr[n];
	for(i=0;i<n;i++){
		scanf("%d",&arr[i]);
	}


	for(i=0;i<n-1;i++){

		for(j=i+1;j<n;j++){
		if(arr[i]>arr[j]){
			temp=arr[i];
			arr[i]=arr[j];
			arr[j]=temp;

	}
		}


}

	for(i=0;i<n;i++){
		printf(" %d",arr[i]);
	}


}
```