Assignment 7

```
//print alternate numbers
#include<stdio.h>

void main(){
	int arr[7]={1,2,3,4,5,6,7};
	for(int i=0;i<7;i=i+2){
		printf("%d \t",arr[i]);
	}
}
```

```
//print alternate numbers
#include<stdio.h>

void main(){
	int arr[7]={1,2,3,4,5,6,7};
	for(int i=0;i<7;i=i+2){
		printf("%d \t",arr[i]);
	}
}
```

```
//merge
#include <stdio.h>
void main(){

	int arr[20];
	int brr[5];

	int n;
	int s_arr=20;
	int s_brr=5;
```

```
	printf("how many element of of arr wants to enter:");
	scanf("%d",&n);
	int i;
	printf("Enter the elements of arr:\n");
	for(i=0;i<n;i++){
		scanf("%d",&arr[i]);
	}



		printf("Enter the elements of brr:\n");
	for(int p=0;p<n;p++){
		scanf("%d",&brr[p]);
	}

	//merge


printf("\ni:%d\n",i);
	for(int j=0;j<5;j++){
		arr[i]=brr[j];
		i++;//incresing index of arr
	}

	// print arr

	printf("Arr :\n");
		for(int k=0;k<(n+s_brr);k++){
			printf("%d\n",arr[k]);
	}
```

```
}

//merge
#include <stdio.h>
void main(){

	int arr[20];
	int brr[5];

	int n;
	int s_arr=20;
	int s_brr=5;

	printf("how many element of of arr wants to enter:");
	scanf("%d",&n);
	int i;
	printf("Enter the elements of arr:\n");
	for(i=0;i<n;i++){
		scanf("%d",&arr[i]);
	}



		printf("Enter the elements of brr:\n");
	for(int p=0;p<n;p++){
		scanf("%d",&brr[p]);
	}

	//merge
```

```
printf("\ni:%d\n",i);
        for(int j=0;j<5;j++){
                arr[i]=brr[j];
                i++;//incresing index of arr
        }

        // print arr

        printf("Arr :\n");
                for(int k=0;k<(n+s_brr);k++){
                        printf("%d\n",arr[k]);
        }



}
//accept elememt and print only prime numbers
#include<stdio.h>
void main(){
        int arr[5];
        int size=5;
        printf("Enter the elements in the array:\n");
        for(int i=0;i<size;i++){
                scanf("%d",&arr[i]);
        }

        printf("arry elements :");
        for(int i=0;i<size;i++){
                printf("%d \t",arr[i]);
        }
```

```
	//check for each prime or not
	int j;
	for(int i=0;i<size;i++){
		//arr[i] is one element of arry
		//loop for 2 to n-1 to check divisible or not
		//printf("inside i for loop\n");
		for(j=2;j<arr[i];j++){
			//printf("inside j for  loop\n");
			if(arr[i]%j!=0){
				//2 3 4 5
			}
			else{
				break;//it is divisible
			}

		}

		//check prime or not
		printf("arr[i]:%d  j: %d\n\n",arr[i],j );
		if(arr[i]==j) //5==5
			printf("\n index:%d , prime:%d\n",i,arr[i]);
	}
}

//reverse
#include<stdio.h>
void main(){
	int arr[5]={10,20,30,40,50};

	int size=5;
	int j=size-1;
```

```
	printf("array before  reverse:");
	for(int i=0;i<size;i++){
		printf("%d\t",arr[i]);
	}

	//reverse logic
	for(int i=0;i<size/2;i++){
		int temp=arr[i];
		arr[i]=arr[j];
		arr[j]=temp;
		j--;
	}

	//printing the reverse array
	printf("\n reverse array:");
	for(int i=0;i<size;i++){
		printf("%d\t",arr[i]);
	}
}

//reverse
#include<stdio.h>
void main(){
	int arr[5]={10,20,30,40,50};

	int size=5;
	int j=size-1;

	printf("array before  reverse:");
	for(int i=0;i<size;i++){
```

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

	//reverse logic
	for(int i=0;i<size/2;i++){
		int temp=arr[i];
		arr[i]=arr[j];
		arr[j]=temp;
		j--;
	}

	//printing the reverse array
	printf("\n reverse array:");
	for(int i=0;i<size;i++){
		printf("%d\t",arr[i]);
	}
}


//sorting
#include<stdio.h>
void main(){
	int arr[5]={5,3,4,2,1};
	int size=5,j,temp;


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

		//holding one elemt and checking with
		for(j=i+1;j<size;j++){
```

```
                        if(arr[i]>arr[j]){
                                temp=arr[i];
                                arr[i]=arr[j];
                                arr[j]=temp;
                        }
                }
        }



        //
        printf("sorted array:");
        for(int i=0;i<size;i++){
                printf("%d\t",arr[i]);
        }
}

//min max in array
#include<stdio.h>
void main(){
        int arr[6]={10,20,50,1,4,7};
        int size=6;
        //max number
        //store max and compare with other elements in the array
        int max=arr[0];

        for(int i=0;i<size;i++){
                if(arr[i]>max){
                        max=arr[i];
                }
        }
```

```
	printf("max number is %d",max);
	//////////////////////////////////////
	//min number
	//store  min and compare with other elements in the array
	int min=arr[0];

	for(int j=0;j<size;j++){
		if(arr[j]<min){
			min=arr[j];
		}
	}

	printf("\nmin is %d",min);

}

//sum of all elements
#include<stdio.h>
void main(){
	int arr[4]={1,2,3,4};
	int sum=0;
	int size=4;
	for(int i=0;i<size;i++){
		sum=sum+arr[i];
	}
	printf("sum is %d",sum);
}
```