Assignment 8

// Q5Print alternate elements in array.

#include<stdio.h>

void alter(int\*,int);

void main(){

int arr[7]={1,2,4,3,5,6,7};

alter(arr,7);

}

void alter(int\* arr,int size){

for(int i=0;i<size;i=i+2){

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

}

}

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

#include<stdio.h>

int max\_arr(int\*,int);

int min\_arr(int\*,int);

void main(){

int arr[10]={1,4,2,4,8,4,9,8,10,11};

int size=10;

int m=max\_arr(arr,size);

int n=min\_arr(arr,size);

printf("Max:%d\n",m);

printf("Min:%d\n",n);

}

int max\_arr(int\* arr,int size){

int max=arr[0];

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

if(arr[i]>max){

max=arr[i];

}

}

return max;

}

int min\_arr(int\* arr,int size){

int min=arr[0];

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

if(arr[i]<min){

min=arr[i];

}

}

return min;

}

//2. Search the given number in array.

#include<stdio.h>

int search(int\*,int);

void main(){

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

int s=10;

int i=search(arr,s);

if(i!=-1)

printf("Element presents on the index:%d",i);

else

printf("Element not found!!");

}

int search(int\* arr,int s){

int num;

printf("Enter the number wants to search:");

scanf("%d",&num);

for(int i=0;i<s;i++){

if(arr[i]==num){

return i;

}

}

return -1;

}

//3. Find sum of all numbers.

#include<stdio.h>

int sum\_arr(int\*,int);

void main(){

int arr[5]={1,2,3,4,5};

int size=5;

int s=sum\_arr(arr,size);

printf("Sum is %d\n",s);

}

int sum\_arr(int\* arr,int size){

int sum=0;

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

sum=sum+arr[i];

}

return sum;

}

//Q4. Find odd and even among the numbers

#include<stdio.h>

void evn\_odd(int\*,int);

void main(){

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

int s=10;

evn\_odd(arr,s);

}

void evn\_odd(int\*arr,int s){

for(int i=0;i<s;i++){

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

printf("index %d Even:%d\n",i,arr[i]);

}

else{

printf("index :%d odd :%d\n",i,arr[i]);

}

}

}