

Assignment 12

//sumof all element

#include<stdio.h>

#include<stdlib.h>

int sum_array(int*,int);

int* create_array(int);

void main(){

int n;

printf("Enter the size of array:");

scanf("%d",&n);

//create array

int* arr=create_array(n);

//sum

int sum=sum_array(arr,n);

printf("sum is %d",sum);

}

//definations

int* create_array(int n){

int* M_array=(int*)malloc(n*sizeof(int));

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

printf("Enter the value %d :",i);

```
        scanf("%d",&M_array[i]);
    }

    return M_array;
}
```

```
int sum_array(int* arr,int n){

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

```
    return sum;
}
```

```
#include<stdio.h>
```

```
#include<stdlib.h>
```

```
int search_num(int*,int);
```

```
int* create_array(int);
```

```
void main(){
```

```
    int n;
```

```
    printf("Enter the size of array:");
```

```
    scanf("%d",&n);
```

```
    //create array
```

```
    int* arr=create_array(n);
```

```
    n=search_num(arr,n);
```

```
if(n!=0){  
    printf("number is at index:%d",n);  
}  
else{  
    printf("Not found");  
}  
}
```

```
int* create_array(int n){  
  
    int* M_array=(int*)malloc(n* sizeof(int));  
  
    //  
    for(int i=0;i<n;i++){  
        printf("Enter value %d:",i);  
        scanf("%d",&M_array[i]);  
    }  
  
    return M_array;  
}
```

```
int search_num(int* arr,int n){  
    int num;  
    printf("Enter the value to search:");  
    scanf("%d",&num);  
  
    for(int i=0;i<n;i++){  
        if(arr[i]==num){  
            return i;  
        }  
    }  
}
```

```

        return 0;
    }

#include<stdio.h>
#include<stdlib.h>

int max_array(int*,int );
int min_array(int*,int);
int* create_array(int);

void main(){
    //create array
    int n=5;
    //int arr[5]={10,20,30,40,50};
    /*
    int* arr=(int*)malloc(n*sizeof(int));
    for(int i=0;i<n;i++){
        printf("enter index %d :",i);
        scanf("%d",&arr[i]);
    }*/

    int* arr=create_array(n);

    int max=max_array(arr,n);//call
    printf("max : %d\n",max);

    int min=min_array(arr,n);
    printf("\nmin :%d",min);
}

int max_array(int* arr,int n){
    int max=arr[0];

```

```
        for(int i=1;i<n;i++){
            if(arr[i]>max){
                max=arr[i];
            }
        }

        return max;
    }
}
```

```
int min_array(int* arr,int n){
    int min=arr[0];
    for(int i=1;i<n;i++){
        if(arr[i]<min){
            min=arr[i];
        }
    }

    return min;
}
```

```
int* create_array(int n){

    int* M_array=(int*)malloc(n*sizeof(int));

    for(int i=0;i<n;i++){
        printf("enter index %d :",i);
        scanf("%d",&M_array[i]);
    }

    return M_array;
}
```

```
#include<stdio.h>
```

```
#include<stdlib.h>
```

```
int* create_arr(int);
```

```
void even_odd(int*, int);
```

```
void main(){
```

```
    int n;
```

```
    printf("Enter the size :");
```

```
    scanf("%d",&n);
```

```
    //create array
```

```
    int* arr=create_arr(n);
```

```
    //
```

```
    even_odd(arr,n);
```

```
}
```

```
//definations
```

```
int* create_arr(int n){
```

```
    int* M_array=(int*)malloc(n*sizeof(int));
```

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

```
        printf("Enter the value %d :",i);
```

```
        scanf("%d",&M_array[i]);
```

```
    }
```

```
    return M_array;
```

```
}
```

```
void even_odd(int* arr, int n){
```

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

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

```
            printf("\n\nindex:%d even:%d\n\n",i,arr[i]);
```

```
        }
```

```
        else{
```

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

```
        }
```

```
    }
```

```
}
```

```
//alternate
```

```
#include<stdio.h>
```

```
#include<stdlib.h>
```

```
int* create_array(int);
```

```
void alternate(int*,int);
```

```
void main(){
```

```
    int n;
```

```
    printf("Enter the size:");
```

```
    scanf("%d",&n);
```

```
    int* arr=create_array(n);
```

```
    //alternate
```

```
    alternate(arr,n);
```

```
}
```

```
int* create_array(int n){
```

```
    int* M_array=(int*)malloc(n*sizeof(int));
```

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

```
        printf("Enter the value %d :",i);
```

```
        scanf("%d",&M_array[i]);
```

```
    }
```

```
    return M_array;
```

```
}
```

```
void alternate(int* arr,int n){
```

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

```
        printf("\n\nIndex:%d value :%d\n\n",i,arr[i]);
```

```
    }
```

```
}
```