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);

}