Assignment 13

//Time (hour, min, sec)

#include<stdio.h>

struct time{

int hr;

int min;

int sec;

};

void main(){

struct time t;

t.hr=1;

t.min=45;

t.sec=60;

printf("%d:%d:%d\n",t.hr,t.min,t.sec);

//create arry

struct time t1[10];

int n;

printf("Enter the n:");

scanf("%d",&n);

//take the fill

printf("Enter the values:\n\n");

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

printf("hr:");

scanf("%d",&t1[i].hr);

printf("min:");

scanf("%d",&t1[i].min);

printf("sec:");

scanf("%d",&t1[i].sec);

printf("\n\n");

}

printf("Times:\n\n");

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

printf("time index %d-->%d:%d:%d\n\n",i,t1[i].hr,t1[i].min,t1[i].sec);

}

}

//SalesManager (id, name, salary, incentive, target)

#include<stdio.h>

#include<string.h>

struct SM{

int id;

char name[20];

double salary;

double incentive;

int target;

};

void main(){

struct SM s;

s.id=1;

strcpy(s.name,"prachiti");

s.salary=4500;

s.incentive=450;

s.target=4;

//print

printf("id: %d\n",s.id);

printf("name:%s\n",s.name);

printf("salary:%lf\n",s.salary);

printf("incentive:%lf\n",s.incentive);

printf("target:%d\n",s.target);

//array

struct SM s1[10];

int n;

printf("\nEnter n:");

scanf("%d",&n);

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

printf("id:");

scanf("%d",&s1[i].id);

printf("name:");

scanf("%s",&s1[i].name);

printf("salary:");

scanf("%lf",&s1[i].salary);

printf("incentive:");

scanf("%lf",&s1[i].incentive);

printf("target:");

scanf("%d",&s1[i].target);

printf("\n\n");

}//end for

printf("Sales managers:\n\n");

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

printf("id:%d\n",s1[i].id);

printf("name:%s\n",s1[i].name);

printf("salary:%lf\n",s1[i].salary);

printf("incentive:%lf\n",s1[i].incentive);

printf("targets:%d\n",s1[i].target);

printf("\n\n");

}//end

}

//Product (id, name, quantity, price)

#include<stdio.h>

struct product {

int id;

char name[20];

int quantity;

double price;

};

void main(){

struct product p;

p.id=1;

strcpy(p.name,"prahiti");

p.quantity=4;

p.price=4556;

printf("id:%d\n\n",p.id);

printf("name:%s\n\n",p.name);

printf("quantity:%d\n",p.quantity);

printf("price:%d\n\n",p.price);

//array

struct product p1[10];

int n;

printf("Enter n:");

scanf("%d",&n);

printf("Enter the values:\n");

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

printf("id:");

scanf("%d",&p1[i].id);

fflush(stdin);

printf("name:");

scanf("%s",&p1[i].name);

printf("quantity:");

scanf("%d",&p1[i].quantity);

printf("price:");

scanf("%lf",&p1[i].price);

printf("\n\n");

}

//

printf("products:\n\n");

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

printf("id:%d\n",p1[i].id);

printf("name:%s\n",p1[i].name);

printf("quantity:%d\n",p1[i].quantity);

printf("price:%lf\n",p1[i].price);

printf("\n\n");

}

}

//menu driven for array

#include<stdio.h>

void main(){

do{

printf("1.create Array\n2.fill array\n3.display arry\n4.delete nth index\n5.search index\n6.add element\n0.Exit\n");

int choice:

printf("\nEnter the choice:\n");

scanf("%d",&choice);

}

}

//Distance ( feet, inch)

struct distance{

int feet;

int inch;

};

void main(){

struct distance d;

d.feet=45;

d.inch=78;

printf("%dfeets %dinches\n\n",d.feet,d.inch);

//array

struct distance d1[10];

int n;

printf("Enter n:");

scanf("%d",&n);

//fill the array

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

printf("Feets:");

scanf("%d",&d1[i].feet);

printf("inches:");

scanf("%d",&d1[i].inch);

printf("\n\n");

}

printf("distances:\n\n");

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

printf("distance at index %d-->%dfeets %dinches\n\n",i,d1[i].feet,d1[i].inch);

}

}

//Date (date, month, year)

#include<stdio.h>

#include<string.h>

struct date{

int day;

int month;

int year;

};

void main(){

struct date d;

d.day=10;

d.month=2;

d.year=2024;

//print

printf("%d-%d-%d",d.day,d.month,d.year);

//array

struct date d1[10];

//

int n;

printf("Enter n:");

scanf("%d",&n);

//

printf("Enter date:\n\n");

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

printf("day:");

scanf("%d",&d1[i].day);

printf("month:");

scanf("%d",&d1[i].month);

printf("year:");

scanf("%d",&d1[i].year);

printf("\n\n");

}

//print

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

if(d1[i].day<=30 && d1[i].day<=31 && d1[i].month<=12)

printf("%d-%d-%d\n\n",d1[i].day,d1[i].month,d1[i].year);

else

printf("incorrect input!!");

}

}

//Complex (real, imaginary)

#include<stdio.h>

struct complex{

int real;

int img;

};

void main(){

struct complex c;

c.real=10;

c.img=45;

printf("%d+%di",c.real,c.real);

//array

struct complex c1[10];

//

int n;

printf("Enter n:");

scanf("%d",&n);

printf("Enter the values:\n\n");

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

printf("real:");

scanf("%d",&c1[i].real);

printf("img:");

scanf("%d",&c1[i].img);

printf("\n\n");

}

printf("complex numbers:\n\n");

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

printf("%d+%di\n\n",c1[i].real,c1[i].img);

}

}