

Assignment 13

In void main

1. //Student (rollNo, name, marks)

```
#include <stdio.h>
struct Student{
    int rollNo;
    char name[15];
    double marks;
};
int main()
{
    struct Student arr[3];
    int i;
    for(i=0; i<3; i++){
        printf("Enter your roll no. ");
        scanf("%d", &arr[i].rollNo);
        printf("Enter your name: ");
        scanf("%s", &arr[i].name);
        printf("Enter your marks ");
        scanf("%lf", &arr[i].marks);
    }
    for(i=0; i<3; i++){
        printf("Roll No is : %d\n", arr[i].rollNo);
        printf("Name is : %s\n", arr[i].name);
        printf("Marks are : %lf\n", arr[i].marks);
    }
}
```

2. //Employee (id, name, salary)

```
#include<stdio.h>
struct Employee{
    int id;
    char name[30];
    double salary;
};
int main()
{
    struct Employee emp;
    printf("Enter your id: ");
    scanf("%d", &emp.id);
    printf("Enter your name: ");
    scanf("%s", &emp.name);
    printf("Enter your salary: ");
    scanf("%d", &emp.salary);
}
```

```

        printf("Id = %d\n", emp.id);
        printf("Name = %s\n", emp.name);
        printf("Salary = %lf", emp.salary);
    }
    3. //Admin (id, name, salary, allowance)

```

```

#include<stdio.h>

```

```

struct Admin{
    int id;
    char name[30];
    double salary;
    float allowance;
};

```

```

int main()
{
    struct Admin a;
    a.id = 84;
    strcpy(a.name,"Sita");
    a.salary = 90000;
    a.allowance = 0.15;

    printf("Id = %d\n", a.id);
    printf("Name = %s\n", a.name);
    printf("Salary = %lf\n", a.salary);
    printf("Allowance in percentage = %f", a.allowance);
}

```

```

    4. //HR (id, name, salary, commission)

```

```

#include<stdio.h>

```

```

struct HR{
    int id;
    char name[30];
    double salary;
    float comission;
};

```

```

int main()
{
    struct HR a;
    a.id = 84;
    strcpy(a.name,"Sita");
    a.salary = 90000;
    a.comission = 0.10;

    printf("Id = %d\n", a.id);
    printf("Name = %s\n", a.name);
    printf("Salary = %lf\n", a.salary);
}

```

```
        printf("Allowance in percentage = %f", a.comission);  
    }
```

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

//HR (id, name, salary, commission)

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

```
#include<string.h>
```

```
struct SalesManager{
```

```
    int id;
```

```
    char name[30];
```

```
    double salary;
```

```
    float incentive;
```

```
    double target;
```

```
};
```

```
int main()
```

```
{
```

```
    struct SalesManager salesManager;
```

```
    salesManager.id = 84;
```

```
    strcpy(salesManager.name,"Sita");
```

```
    salesManager.salary = 90000;
```

```
    salesManager.incentive = 0.5;
```

```
    salesManager.target = 10000000;
```

```
    printf("Id = %d\n", salesManager.id);
```

```
    printf("Name = %s\n", salesManager.name);
```

```
    printf("Salary = %lf\n", salesManager.salary);
```

```
    printf("Incentive in percentage = %f\n", salesManager.incentive);
```

```
    printf("Target is = %lf", salesManager.target);
```

```
}
```

6. //Date (date, month, year)

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

```
struct Day{
```

```
    int date;
```

```
    int month;
```

```
    int year;
```

```
};
```

```
int main()
```

```
{
```

```
    struct Day d;
```

```
    d.date = 10;
```

```
    d.month = 03;
```

```
    d.year = 2025;
```

```
    printf("Day is %d-%d-%d", d.date, d.month, d.year);
```

```

}
7. //Time (hour, min, sec)
#include<stdio.h>
struct Time{
    int hour;
    int min;
    int sec;
};
int main()
{
    struct Time t;
    t.hour = 5;
    t.min = 11;
    t.sec = 40;

    printf("Time is %d hours %d min %d sec", t.hour, t.min, t.sec);

}

```

```

8. //Distance ( feet, inch)
#include<stdio.h>
struct Distance{
    int feet;
    int inch;
};
int main()
{
    struct Distance dis;
    dis.feet = 5;
    dis.inch = 4;

    printf("Distance is %d feet and %d inches", dis.feet, dis.inch);

}

```

```

9. //Complex (real, imaginary)
#include<stdio.h>
struct Complex{
    int real;
    char imaginary[];
};
int main()
{
    struct Complex c;
    c.real = 5;
    strcpy(c.imaginary, "4i");
}

```

```

    printf("complex number is %d+%s", c.real, c.imaginary);

}
10.//Product (id, name, quantity, price)
#include<stdio.h>
struct Product{
    int id;
    char name[30];
    int quantity;
    double price;
};
int main()
{
    struct Product p;
    p.id = 84;
    strcpy(p.name,"Pencil");
    p.quantity = 10;
    p.price = 10;

    printf("Id = %d\n", p.id);
    printf("Name = %s\n", p.name);
    printf("Quantity = %d\n", p.quantity);
    printf("Price = %lf", p.quantity*p.price);
}

```

Pass by value

```

1. //Product (id, name, quantity, price)
#include<stdio.h>
typedef struct Product{
    int id;
    char name[30];
    int quantity;
    double price;
}Product;
Product store();
void display(Product);
int main()
{
    struct Product p;
    p = store();
    display(p);
}
Product store(){
    Product p;

```

```

    p.id = 84;
    strcpy(p.name,"Pencil");
    p.quantity = 10;
    p.price = 10;
    return p;
}
void display(Product p){
    printf("Id = %d\n", p.id);
    printf("Name = %s\n", p.name);
    printf("Quantity = %d\n", p.quantity);
    printf("Price = %lf", p.quantity*p.price);
}

```

2. //Student (rollNo, name, marks)

```

#include <stdio.h>
typedef struct Student{
    int rollNo;
    char name[15];
    double marks;
}Student;
Student store();
void display(Student);
int main()
{
    Student s;
    s = store();
    display(s);
}
Student store(){
    Student stu;
    printf("Enter your roll no: ");
    scanf("%d", &stu.rollNo);
    printf("Enter your name: ");
    scanf("%s", stu.name);
    printf("Enter your marks: ");
    scanf("%lf", &stu.marks);
    return stu;
}
void display(Student stu){
    printf("Id = %d\n", stu.rollNo);
    printf("Name = %s\n", stu.name);
    printf("Marks = %lf", stu.marks);
}

```

3. //Admin (id, name, salary, allowance)

```

#include<stdio.h>

```

```

typedef struct Admin{
    int id;
    char name[30];
    double salary;
    float allowance;
}Admin;
Admin store();
void display(Admin);
int main()
{
    Admin a;
    a = store();
    display(a);
}
Admin store(){
    Admin ad;
    printf("Enter your id: \n");
    scanf("%d", &ad.id);
    printf("Enter your name: \n");
    scanf("%s",ad.name);
    printf("Enter your salary: \n");
    scanf("%lf", &ad.salary);
    printf("Enter the allowance in percentage: \n");
    scanf("%f", &ad.allowance);
    return ad;
}
void display(Admin a){
    printf("Id = %d\n", a.id);
    printf("Name = %s\n", a.name);
    printf("Salary = %lf\n", a.salary);
    printf("Allowance in percentage = %f", a.allowance);
}

```

4. //HR (id, name, salary, commission)

```

#include<stdio.h>
typedef struct HR{
    int id;
    char name[30];
    double salary;
    float comission;
}HR;
HR store();
void display(HR);
int main()
{

```

```

    HR h;
    h=store();
    display(h);
}
HR store(){
    HR h;
    printf("Enter your id: \n");
    scanf("%d", &h.id);
    printf("Enter your name: \n");
    scanf("%s",h.name);
    printf("Enter your salary: \n");
    scanf("%lf", &h.salary);
    printf("Enter the comission in percentage: \n");
    scanf("%f", &h.comission);
    return h;
}
void display(HR h){

    printf("Id = %d\n", h.id);
    printf("Name = %s\n", h.name);
    printf("Salary = %lf\n", h.salary);
    printf("Comission in percentage = %f", h.comission);
}

```

```

5. //SalesManager (id, name, salary, incentive, target)
//HR (id, name, salary, commission)
#include<stdio.h>
#include<string.h>
typedef struct SalesManager{
    int id;
    char name[30];
    double salary;
    float incentive;
    double target;
}SalesManager;
SalesManager store();
void display(SalesManager);
int main()
{
    SalesManager salesManager;
    salesManager = store();
    display(salesManager);
}
SalesManager store()
{

```



```

    SalesManager salesManager;
    salesManager.id = 84;
    strcpy(salesManager.name,"Sita");
    salesManager.salary = 90000;
    salesManager.incentive = 0.5;
    salesManager.target = 10000000;
    return salesManager;
}

void display(SalesManager salesManager){
    printf("Id = %d\n", salesManager.id);
    printf("Name = %s\n", salesManager.name);
    printf("Salary = %lf\n", salesManager.salary);
    printf("Incentive in percentage = %f\n", salesManager.incentive);
    printf("Target is = %lf", salesManager.target);
}

```

6. //Date (date, month, year)

```

#include<stdio.h>
typedef struct Day{
    int date;
    int month;
    int year;
}Day;
Day store();
void display(Day);
int main()
{
    Day d;
    d =store();
    display(d);
}
Day store()
{
    Day d;
    d.date = 10;
    d.month = 03;
    d.year = 2025;
    return d;
}
void display(Day d){
    printf("Day is %d-%d-%d", d.date, d.month, d.year);
}

```

7. //Time (hour, min, sec)

```

#include<stdio.h>
typedef struct Time{

```

```

    int hour;
    int min;
    int sec;
}Time;
Time store();
void display(Time);
int main()
{
    Time t;
    t = store();
    display(t);
}
Time store(){
    Time t;
    t.hour = 5;
    t.min = 11;
    t.sec = 40;
    return t;
}
void display(Time t){
    printf("Time is %d hours %d min %d sec", t.hour, t.min, t.sec);
}

```

8. //Distance (feet, inch)

```

#include<stdio.h>
typedef struct Distance{
    int feet;
    int inch;
}Distance;
Distance store();
void display(Distance);
int main()
{
    struct Distance dis;
    dis=store();
    display(dis);
}
Distance store(){
    Distance dis;
    dis.feet = 5;
    dis.inch = 4;
    return dis;
}
void display(Distance dis){
    printf("Distance is %d feet and %d inches", dis.feet, dis.inch);
}

```

```

}
9. #include <stdio.h>
typedef struct Complex{
    int imaginary;
    int real;
}Complex;

Complex store(Complex);
void display(Complex);

void main(){
    Complex c1;
    c1 = store(c1);
    display(c1);
}
Complex store(Complex c){
    printf("Enter value of real: ");
    scanf("%d",&c.real);
    printf("Enter value of imaginary:");
    scanf("%d",&c.imaginary);
    return c;
}
void display(Complex c2)
{
    printf("Complex No = %d+%di", c2.real, c2.imaginary);
}

```

```

10.//Product (id, name, quantity, price)
#include<stdio.h>
typedef struct Product{
    int id;
    char name[30];
    int quantity;
    double price;
}Product;
Product store();
void display(Product);
int main()
{
    struct Product p;
    p = store();
    display(p);
}
Product store(){
    Product p;

```

```

    p.id = 84;
    strcpy(p.name, "Pencil");
    p.quantity = 10;
    p.price = 10;
    return p;
}

void display(Product p){
    printf("Id = %d\n", p.id);
    printf("Name = %s\n", p.name);
    printf("Quantity = %d\n", p.quantity);
    printf("Price = %lf", p.quantity*p.price);
}

```

Pass one structure variable to function by address

1. //Student (rollNo, name, marks)

```

#include <stdio.h>
typedef struct Student{
    int rollNo;
    char name[15];
    double marks;
}Student;
void store(Student*);
void display(Student*);
int main()
{
    Student s;
    store(&s);
    display(&s);
}

void store(Student * stu){

    printf("Enter your roll no: ");
    scanf("%d", &stu->rollNo);
    printf("Enter your name: ");
    scanf("%s", stu->name);
    printf("Enter your marks: ");
    scanf("%lf", &stu->marks);

}

void display(Student* stu){
    printf("Id = %d\n", stu->rollNo);
    printf("Name = %s\n", stu->name);
    printf("Marks = %lf", stu->marks);
}

```

2. //Employee (id, name, salary)

```

#include<stdio.h>
struct Employee{
    int id;
    char name[30];
    double salary;
};
void store(struct Employee*);
void display(struct Employee*);
int main()
{
    struct Employee emp;

    store(&emp);
    display(&emp);
}
void store(struct Employee* e1){

    printf("Enter your id: ");
    scanf("%d", &e1->id);
    printf("Enter your name: ");
    scanf("%s", &e1->name);
    printf("Enter your salary: ");
    scanf("%lf", &e1->salary);

}
void display(struct Employee* e1){
    printf("Id = %d\n", e1->id);
    printf("Name = %s\n", e1->name);
    printf("Salary = %lf", e1->salary);
}
3. //Admin (id, name, salary, allowance)

```

```

#include<stdio.h>
typedef struct Admin{
    int id;
    char name[30];
    double salary;
    float allowance;
}Admin;
void store(Admin*);
void display(Admin*);
int main()
{
    Admin a;
    store(&a);
}

```

```

        display(&a);
    }
    store(Admin* ad){

        printf("Enter your id: \n");
        scanf("%d", &ad->id);
        printf("Enter your name: \n");
        scanf("%s",ad->name);
        printf("Enter your salary: \n");
        scanf("%lf", &ad->salary);
        printf("Enter the allowance in percentage: \n");
        scanf("%f", &ad->allowance);

    }
    void display(Admin* a){
        printf("Id = %d\n", a->id);
        printf("Name = %s\n", a->name);
        printf("Salary = %lf\n", a->salary);
        printf("Allowance in percentage = %f", a->allowance);
    }

```

4. //HR (id, name, salary, commission)

```

#include<stdio.h>
typedef struct HR{
    int id;
    char name[30];
    double salary;
    float comission;
}HR;
void store(HR*);
void display(HR*);
int main()
{
    HR h;
    store(&h);
    display(&h);
}
void store(HR* h){

    printf("Enter your id: \n");
    scanf("%d", &h->id);
    printf("Enter your name: \n");
    scanf("%s",h->name);
    printf("Enter your salary: \n");
    scanf("%lf", &h->salary);

```

```

    printf("Enter the comission in percentage: \n");
    scanf("%f", &h->comission);

}

void display(HR* h){

    printf("Id = %d\n", h->id);
    printf("Name = %s\n", h->name);
    printf("Salary = %lf\n", h->salary);
    printf("Comission in percentage = %f", h->comission);
}

```

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

//HR (id, name, salary, commission)

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

```
#include<string.h>
```

```
typedef struct SalesManager{
```

```
    int id;
```

```
    char name[30];
```

```
    double salary;
```

```
    float incentive;
```

```
    double target;
```

```
}SalesManager;
```

```
void store(SalesManager*);
```

```
void display(SalesManager*);
```

```
int main()
```

```
{
```

```
    SalesManager salesManager;
```

```
    store(&salesManager);
```

```
    display(&salesManager);
```

```
}
```

```
void store(SalesManager* salesManager)
```

```
{
```

```
    salesManager->id = 84;
```

```
    strcpy(salesManager->name,"Sita");
```

```
    salesManager->salary = 90000;
```

```
    salesManager->incentive = 0.5;
```

```
    salesManager->target = 100;
```

```
}
```

```
void display(SalesManager* salesManager){
```

```
    printf("Id = %d\n", salesManager->id);
```

```
    printf("Name = %s\n", salesManager->name);
```

```
    printf("Salary = %lf\n", salesManager->salary);
```

```

        printf("Incentive in percentage = %f\n", salesManager->incentive);
        printf("Target is = %lf", salesManager->target);
    }

```

6. //Date (date, month, year)

```

#include<stdio.h>
typedef struct Day{
    int date;
    int month;
    int year;
}Day;
void store(Day*);
void display(Day*);
int main()
{
    Day d;
    store(&d);
    display(&d);
}
void store(Day * d)
{
    d->date = 10;
    d->month = 03;
    d->year = 2025;
}
void display(Day * d){
    printf("Day is %d-%d-%d", d->date, d->month, d->year);
}

```

7. //Time (hour, min, sec)

```

#include<stdio.h>
typedef struct Time{
    int hour;
    int min;
    int sec;
}Time;
void store(Time*);
void display(Time*);
int main()
{
    Time t;
    store(&t);
    display(&t);
}
void store(Time * t){

```



```

    t->hour = 5;
    t->min = 11;
    t->sec = 40;

}
void display(Time * t){
    printf("Time is %d hours %d min %d sec", t->hour, t->min, t->sec);
}

```

8. //Distance (feet, inch)

```

#include<stdio.h>
typedef struct Distance{
    int feet;
    int inch;
}Distance;
void store(Distance*);
void display(Distance*);
int main()
{
    struct Distance dis;
    store(&dis);
    display(&dis);
}
void store(Distance * dis){

    dis->feet = 5;
    dis->inch = 4;

}
void display(Distance *dis){
    printf("Distance is %d feet and %d inches", dis->feet, dis->inch);
}

```

9. #include <stdio.h>

```

typedef struct Complex{
    int imaginary;
    int real;
}Complex;

```

```

void store(Complex*);
void display(Complex*);

```

```

void main(){
    Complex c1;
    store(&c1);
    display(&c1);
}

```

```

}
void store(Complex *c){
    printf("Enter value of real: ");
    scanf("%d",&c->real);
    printf("Enter value of imaginary:");
    scanf("%d",&c->imaginary);

}
void display(Complex * c2)
{
    printf("Complex No = %d+%di", c2->real, c2->imaginary);
}

```

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

```

#include<stdio.h>
typedef struct Product{
    int id;
    char name[30];
    int quantity;
    double price;
}Product;
void store(Product *);
void display(Product *);
int main()
{
    struct Product p;
    store(&p);
    display(&p);
}
void store(Product * p){
    p->id = 84;
    strcpy(p->name,"Pencil");
    p->quantity = 10;
    p->price = 10;
}
void display(Product* p){
    printf("Id = %d\n", p->id);
    printf("Name = %s\n", p->name);
    printf("Quantity = %d\n", p->quantity);
    printf("Price = %lf", p->quantity*p->price);
}

```

Pass by address

1. //Student (rollNo, name, marks)

```

#include <stdio.h>
typedef struct Student{

```

```

    int rollNo;
    char name[15];
    double marks;
}Student;
void store(Student*, int);
void display(Student*, int);
int main()
{
    Student arr[3];
    store(arr,3);
    display(arr,3);
}
void store(Student * stu, int size){
    int i;
    for(i=0;i<3;i++){
        printf("Enter your roll no: ");
        scanf("%d", &stu[i].rollNo);
        printf("Enter your name: ");
        scanf("%s", &stu[i].name);
        printf("Enter your marks: ");
        scanf("%lf", &stu[i].marks);
    }
}
void display(Student* stu, int size){
    int i;
    for(i=0; i<3; i++){
        printf("Id = %d\n", stu[i].rollNo);
        printf("Name = %s\n", stu[i].name);
        printf("Marks = %lf\n", stu[i].marks);
    }
}

```

2. //Employee (id, name, salary)

```

#include<stdio.h>
struct Employee{
    int id;
    char name[30];
    double salary;
};
void store(struct Employee*, int);
void display(struct Employee*, int);
int main()
{
    struct Employee emp[2];

```

```

        store(emp,2);
        display(emp,2);
    }
void store(struct Employee* e1, int size){
    int i;
    for(i=0;i<size;i++){
        printf("Enter your id: ");
        scanf("%d", &e1[i].id);
        printf("Enter your name: ");
        scanf("%s", &e1[i].name);
        printf("Enter your salary: ");
        scanf("%lf", &e1[i].salary);
    }

}

void display(struct Employee* e1, int size){
    int i;
    for(i=0;i<size;i++){
        printf("Id = %d\n", e1[i].id);
        printf("Name = %s\n", e1[i].name);
        printf("Salary = %lf\n", e1[i].salary);
    }

}

```

3. //Admin (id, name, salary, allowance)

```

#include<stdio.h>
typedef struct Admin{
    int id;
    char name[30];
    double salary;
    float allowance;
}Admin;
void store(Admin*, int);
void display(Admin*, int);
int main()
{
    Admin a[2];
    store(a,2);
    display(a,2);
}
store(Admin* ad, int size){
    int i;
    for(i=0;i<size;i++){
        printf("Enter your id: \n");
    }
}

```

```

scanf("%d", &ad[i].id);
printf("Enter your name: \n");
scanf("%s",&ad[i].name);
printf("Enter your salary: \n");
scanf("%lf", &ad[i].salary);
printf("Enter the allowance in percentage: \n");
scanf("%f", &ad[i].allowance);
}
}
void display(Admin* a, int size){
    int i;
    for(i=0;i<size;i++){
        printf("Id = %d\n", a[i].id);
        printf("Name = %s\n", a[i].name);
        printf("Salary = %lf\n", a[i].salary);
        printf("Allowance in percentage = %f\n", a[i].allowance);
    }
}

```

4. //HR (id, name, salary, commission)

```

#include<stdio.h>
typedef struct HR{
    int id;
    char name[30];
    double salary;
    float comission;
}HR;
void store(HR*,int);
void display(HR*,int);
int main()
{
    HR h[2];
    store(h,2);
    display(h,2);
}
void store(HR* h,int size){
    int i;
    for(i=0;i<size;i++){
        printf("Enter your id: \n");
        scanf("%d", &h[i].id);
        printf("Enter your name: \n");
        scanf("%s",&h[i].name);
        printf("Enter your salary: \n");
        scanf("%lf", &h[i].salary);
        printf("Enter the comission in percentage: \n");
    }
}

```

```

        scanf("%f", &h[i].comission);
    }
}

void display(HR* h,int size){
    int i;
    for(i=0;i<size;i++){
        printf("Id = %d\n", h[i].id);
        printf("Name = %s\n", h[i].name);
        printf("Salary = %lf\n", h[i].salary);
        printf("Comission in percentage = %f\n", h[i].comission);
    }
}

```

```

5. //SalesManager (id, name, salary, incentive, target)
//HR (id, name, salary, commission)
#include<stdio.h>
#include<string.h>
typedef struct SalesManager{
    int id;
    char name[30];
    double salary;
    float incentive;
    double target;
} SalesManager;
void store(SalesManager*,int);
void display(SalesManager*,int);
int main()
{
    SalesManager salesManager[2];
    store(salesManager,2);
    display(salesManager,2);
}

void store(SalesManager* salesManager,int size)
{
    int i;
    for(i=0;i<size;i++){
        printf("Enter your id: \n");
        scanf("%d", &salesManager[i].id);
        printf("Enter your name: \n");
        scanf("%s",&salesManager[i].name);
        printf("Enter your salary: \n");
        scanf("%lf", &salesManager[i].salary);
        printf("Enter the incentive: \n");
        scanf("%f", &salesManager[i].incentive);
        printf("Enter the target: \n");
    }
}

```

```

        scanf("%lf", &salesManager[i].target);
    }

}

void display(SalesManager* salesManager, int size){
    int i;
    for(i=0;i<size;i++){
        printf("Id = %d\n", salesManager[i].id);
        printf("Name = %s\n", salesManager[i].name);
        printf("Salary = %lf\n", salesManager[i].salary);
        printf("Incentive in percentage = %f\n", salesManager[i].incentive);
        printf("Target is = %lf\n", salesManager[i].target);
    }
}

```

6. //Date (date, month, year)

```

#include<stdio.h>
typedef struct Day{
    int date;
    int month;
    int year;
}Day;
void store(Day*,int);
void display(Day*,int);
int main()
{
    Day d[2];
    store(d,2);
    display(d,2);
}

void store(Day * d, int size)
{int i;
    for(i=0;i<size;i++){
        printf("Enter date: \n");
        scanf("%d", &d[i].date);
        printf("Enter month: \n");
        scanf("%d",&d[i].month);
        printf("Enter year: \n");
        scanf("%d", &d[i].year);
    }
}

void display(Day * d, int size){
    int i;
    for(i=0;i<size;i++){

```

```
    printf("Day is %d-%d-%d\n", d[i].date, d[i].month, d[i].year);  
}
```

```
}
```

7. //Time (hour, min, sec)

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

```
typedef struct Time{
```

```
    int hour;
```

```
    int min;
```

```
    int sec;
```

```
}Time;
```

```
void store(Time*,int);
```

```
void display(Time*,int);
```

```
int main()
```

```
{
```

```
    Time t[2];
```

```
    store(t,2);
```

```
    display(t,2);
```

```
}
```

```
void store(Time * t,int size){
```

```
    int i;
```

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

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

```
        scanf("%d", &t[i].hour);
```

```
        printf("Enter month: \n");
```

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

```
        printf("Enter year: \n");
```

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

```
}
```

```
}
```

```
void display(Time * t,int size){
```

```
    int i;
```

```
    for(i=0;i<size;i++)
```

```
        printf("Time is %d hours %d min %d sec\n", t[i].hour, t[i].min, t[i].sec);
```

```
}
```

8. //Distance (feet, inch)

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

```
typedef struct Distance{
```

```
    int feet;
```

```
    int inch;
```

```
}Distance;
```

```
void store(Distance*,int);
```

```
void display(Distance*,int);
```



```

int main()
{
    struct Distance dis[1];
    store(dis,1);
    display(dis,1);
}

void store(Distance * dis,int size){
    int i;
    for(i=0;i<size;i++){
        dis[i].feet = 5;
        dis[i].inch = 4;
    }

}

void display(Distance *dis,int size){
    int i;
    for(i=0;i<size;i++){
        printf("Distance is %d feet and %d inches", dis[i].feet, dis[i].inch);
    }

}

```

```

9. #include <stdio.h>
typedef struct Complex{
    int imaginary;
    int real;
}Complex;

```

```

void store(Complex*,int);
void display(Complex*,int);

```

```

void main(){
    Complex c1[1];
    store(c1,1);
    display(c1,1);
}

void store(Complex *c,int size){
    int i;
    for(i=0;i<size;i++){
        printf("Enter value of real: ");
        scanf("%d",&c[i].real);
        printf("Enter value of imaginary:");
        scanf("%d",&c[i].imaginary);
    }
}

```

```

void display(Complex * c2, int size)
{
    int i;
    for(i=0;i<size;i++){
        printf("Complex No = %d+%di", c2[i].real, c2[i].imaginary);
    }
}

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

```

```

#include <stdio.h>

```

```

typedef struct Product {
    int id;
    char name[20];
    int quantity;
    float price;
} Product;
void storeArray(Product arr[], int size);
void display(Product arr[], int size);
void main() {

    int size = 3;
    Product arr[size];
    storeArray(arr, size);
    display(arr, size);
}
void storeArray(Product* arr, int size) {

```

```

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

        printf("Enter Product Id: ");
        scanf("%d", &arr[i].id);

        printf("Enter Product Name: ");
        scanf("%s", arr[i].name);

        printf("Enter Product Quantity: ");
        scanf("%d", &arr[i].quantity);

        printf("Enter Product Price: ");
        scanf("%f", &arr[i].price);
    }
}

```

```
}  
void display(Product *arr, int size) {  
    int i;  
    for (i = 0; i < size; i++) {  
        printf("\nProduct %d:\n", i + 1);  
        printf("Id: %d\n", arr[i].id);  
        printf("Name: %s\n", arr[i].name);  
        printf("Price: %.2f\n", arr[i].price);  
        printf("Quantity: %d\n", arr[i].quantity);  
    }  
}
```