Assignment no.13

Type 1.Using function(store,display)->pass by value:

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

```c
#include<stdio.h>
struct Student
{
        int rollNO;
        char name[50];
        float marks;
};

void main()

{
        struct Student s1,s2,s3;
        printf("Enter details for student 1:\n");
        printf("rollNO for student:\n");
        scanf("%d",&s1.rollNO);
        printf(" name for student:\n");
        scanf("%s",s1.name);
        printf(" marks for student :\n");
        scanf("%f",&s1.marks);

        printf("Enetr details for student 2:\n");
        printf(" rollNO for student:");
        scanf("%d",&s2.rollNO);
        printf(" name for student: ");
        scanf("%s",s2.name);
        printf(" marks for student : ");
```

```c
        scanf("%f",&s2.marks);


        printf("Enter details for student 3:\n");
        printf(" rollNO for student: \n");
        scanf("%d",&s3.rollNO);
        printf(" name for student: \n");
        scanf("%s",s3.name);
        printf(" marks for student : \n");
        scanf("%f",&s3.marks);


        displayStudent(s1);
        displayStudent(s2);
        displayStudent(s3);
}


void displayStudent(struct Student s)
{
        printf("\n------Student Details------\n");
        printf("rollNO:%d\n",s.rollNO);
        printf(" name:%s\n",s.name);
        printf(" marks:%f\n",s.marks);
}


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


#include<stdio.h>
struct Employee
{
        int id;
        char name[50];
        float salary;
```

```c
};

void main()
{
	struct Employee emp1,emp2;
	printf("Enter data for employee1: \n");
	printf("id : \n");
	scanf("%d",&emp1.id);
	printf("name: \n");
	scanf("%s",emp1.name);
	printf("sala,ry: \n");
	scanf("%f",&emp1.salary);

	printf("Enter data for employee2: \n");
	printf("id : \n");
	scanf("%d",&emp2.id);
	printf("name: \n");
	scanf("%s",emp2.name);
	printf("salary: \n");
	scanf("%f",&emp2.salary);

	display(emp1);
	display(emp2);

}

void display(struct Employee e)
{
	printf("Student Details-----------\n");
	printf("id:%d\n",e.id);
```

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

        printf("salary:%.2f\n",e.salary);

}


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


#include<stdio.h>
struct Admin
{
        int id;

        char name[40];

        float salary,allowance;


};
void display(struct Admin *a);


void main()
{
        struct Admin a1,a2;

        printf("Enter data for Admin1: \n");

        printf("id of admin:\n");

        scanf("%d",&a1.id);

        printf("name of admin:\n");

        scanf("%s",a1.name);

        printf("salary of admin:\n");

        scanf("%f",&a2.salary);


        printf("Enter data for Admin2: \n");

        printf("id of admin:\n");

        scanf("%d",&a2.id);

        printf("name of admin:\n");
```

```c
        scanf("%s",a2.name);

        printf("salary of admin:\n");

        scanf("%f",&a2.salary);


        display(&a1);

        display(&a2);

}

void display(struct Admin *a)

{

        printf("id:%d\n",a->id);

        printf("name:%s\n",a->name);

        printf("salary:%f\n",a->salary);

        printf("allowance:%f\n",a->allowance);

}
```


```c
4. //HR:(id,name,salary,commission)


#include<stdio.h>

struct Hr

{

        int id;

        char name[30];

        float salary,commission;


};

void display(struct Hr hr);


void main()

{


        struct Hr h1,h2;
```

```c
        printf("Enetr id of hr:\n");

        scanf("%d",&h1.id);

        printf("Enetr name of hr:\n");

        scanf("%s",h1.name);

        printf("Enter salary of hr:\n");

        scanf("%f",&h1.salary);

        printf("Enetr commission of hr:\n");

        scanf("%f",&h1.commission);


        printf("Enetr id of hr:\n");

        scanf("%d",&h2.id);

        printf("Enetr name of hr:\n");

        scanf("%s",h2.name);

        printf("Enter salary of hr:\n");

        scanf("%f",&h2.salary);

        printf("Enetr commission of hr:\n");

        scanf("%f",&h2.commission);
}
void display(struct Hr h)
{
  printf("id:%d\n",h.id);
  printf("name:%s\n",h.name);
  printf("salary:%f\n",h.salary);
  printf("commission:%f",h.commission);
}


5. //salesManager:(id,name,salary,incentive,target)


#include<stdio.h>
struct SalesManager
{
```

```c
        int id;

        char name[50];

        double salary;

        float incentive;

        char target[40];
};

void main()
{
        struct SalesManager s1,s2;
    printf("Enter data for first 1: ");
    printf("Enter id:");
    scanf("%d",&s1.id);
    printf("Enetr name:\n");
    scanf("%s",s1.name);
    printf("Enetr incentive:\n");
    scanf("%f",&s1.incentive);
    printf("Enetr target:\n");
    scanf("%s",s1.target);

    printf("Enetr data for second manager:\n");
    printf("Enetr id:\n");
    scanf("%d",&s2.id);
    printf("Enter name:\n");
    scanf("%s",s2.name);
    printf("Enetr incentive:\n");
    scanf("%f",&s2.incentive);
    printf("Enter target:");
    scanf("%s",s2.target);

    display(s1);
```

```c
        display(s2);

}


void display(struct SalesManager s)

{

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

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

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

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

}
```

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

```c
#include<stdio.h>

struct Date

{

        int date;

        char month[50];

        double year;



};


void main()

{

        struct Date d1,d2;

    printf("Enter data for date1: ");

    printf("Enter date:");

    scanf("%d",&d1.date);

    printf("Enetr month:\n");

    scanf("%s",d1.month);
```

```c
    printf("Enetr year:\n");

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


    printf("Enter data for date2: ");

    printf("Enter date:");

    scanf("%d",&d2.date);

    printf("Enetr month:\n");

    scanf("%s",d2.month);

    printf("Enetr year:\n");

    scanf("%d",&d2.year);


 display(d1);

    display(d2);

 }


void display(struct Date d)

{

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

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

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

}


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

#include<stdio.h>

struct Time

{

        int hour;

        int min;

        int sec;

};
```

```c
void main()
{
        struct Time t1,t2;
    printf("Enter data for time1: ");
    printf("Enter time:");
    scanf("%d",&t1.hour);
    printf("Enetr min:\n");
    scanf("%d",&t1.min);
    printf("Enetr sec:\n");
    scanf("%d",&t1.sec);

    printf("Enter data for time1: ");
    printf("Enter time:");
    scanf("%d",&t2.hour);
    printf("Enetr min:\n");
    scanf("%d",&t2.min);
    printf("Enetr sec:\n");
    scanf("%d",&t2.sec);

     display(t1);
    display(t2);
   }
void display(struct Time t)
{
        printf("%d:\n",t.hour);
        printf("%d:\n",t.min);
        printf("%d:\n",t.sec);
}
```

```c
8.. //Distance(feet,inch)
#include<stdio.h>
struct Distance
{
        int feet;
    float inch;



};
void display(struct Distance d);

void main()
{
        struct Distance d1,d2,d3;
    printf("Enter data for d1: ");
    printf("Enter feet:");
    scanf("%d",&d1.feet);
    printf("Enetr min:\n");
    scanf("%f",&d1.inch);

    printf("Enter data for d2: ");
    printf("Enter feet:");
    scanf("%d",&d2.feet);
    printf("Enetr min:\n");
    scanf("%f",&d2.inch);

    printf("Enter feet:");
    scanf("%d",&d3.feet);
    printf("Enetr inch:\n");
    scanf("%f",&d3.inch);
```

```c
    display(d1);

    display(d2);

    display(d3);


}


void display(struct Distance d)

{

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

        printf("%f:\n",d.inch);

}
```

9.//Complex(real,imaginary)

```c
#include<stdio.h>

struct Complex

{

        double real;

    double imaginary;



};

void display(struct Complex c);


void main()

{

        struct Complex c1,c2;

    printf("Enter data for complex1: ");

    printf("Enter real:");

    scanf("%lu",&c1.real);
```

```c
    printf("Enetr imaginary:\n");
    scanf("%lu",&c1.imaginary);


    printf("Enter data for c2: ");
    printf("Enter real:");
    scanf("%lu",&c2.real);
    printf("Enetr min:\n");
    scanf("%lu",&c2.imaginary);


     display(c1);
    display(c2);
    }


void display(struct Complex c)
{
        printf("%lu:\n",c.real);
        printf("%lu:\n",c.imaginary);


}


10.  //Product(id,name,quantity)
#include<stdio.h>
struct Product
{
        int id;
        char name[40];
        int quantity;
    int price;
};
void display(struct Product p);
```

```c
void main()
{
        struct Product p1,p2;
    printf("Enter data for p1: ");
    printf("Enter id:");
    scanf("%d",&p1.id);
    printf("Enetr name:\n");
    scanf("%s",p1.name);
    printf("Enter quantity:\n");
    scanf("%d",&p1.quantity);
    printf("Enter price:\n");
    scanf("%d",&p1.price);

    printf("Enter data for p2: ");
    printf("Enter id:");
    scanf("%d",&p2.id);
    printf("Enetr name:\n");
    scanf("%s",p2.name);
    printf("Enter quantity:\n");
    scanf("%d",&p2.quantity);
    printf("Enter price:\n");
    scanf("%d",&p2.price);
    display(p1);
    display(p2);
    }

void display(struct Product p)
{
        printf("%d:\n",p.id);
        printf("%s:\n",p.name);
        printf("%d:\n",p.quantity);
```

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

}


Type 2:pass bye value(array):

1.//student(rollNO,name,marks):pass bye address:


#include<stdio.h>
struct Student
{
        int rollNO;
        char name[40];
        float marks;
};


void accept(struct Student *students,int n);
void display(struct Student *students,int n );


int main()
{
    struct Student students[3];
    accept(students,3);
    display(students,3);
}


void accept(struct Student *students,int n)
{
        for(int i=0;i<n;i++)
 {
  printf("Enetr rollNO: \n");
  scanf("%d",&students[i].rollNO);
  printf("Enetr name: \n");
```

```c
    scanf("%s",students[i].name);
    printf("Enetr marks: \n");
    scanf("%f",&students[i].marks);
  }
}


void display(struct Student *students,int n)
{
  printf("\nStudents of details:");
  for(int i=0;i<n;i++)
  {
   printf("%d:\n",students[i].rollNO);
        printf("%s:\n",students[i].name);
        printf("%f:\n",students[i].marks);
  }
}


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

#include<stdio.h>
struct Employee
{
        int id;
        char name[40];
        float salary;
};


int main()
{
        struct Employee employes[2];
        accept(employes,2);
```

```c
        display(employes,2);
}


void accept(struct Employee *employes,int n)
{
    for(int i=0;i<n;i++)
    {
        printf("Enter id:\n");
        scanf("%d",&employes[i].id);
        printf("Enter name:\n");
        scanf("%s",employes[i].name);
        printf("Enter salary:\n");
        scanf("%f",&employes[i].salary);
    }
}


void display(struct Employee *employes,int n)
{
    printf("\n employess detail:");
    for(int i=0;i<n;i++)
    {
        printf("id:\n",&employes[i].id);
        printf("%s:\n",employes[i].name);
        printf("%f:\n",&employes[i].salary);
    }
}


3. //Admin(id,name,salary,allowance)
#include<stdio.h>
struct Admin
{
```

```c
        int id;

        char name[40];

        float salary;

        float allowance;

};


int main()

{

        struct Admin admins[2];

        accept(admins,2);

        display(admins,2);

}


void accept(struct Admin *admins,int n)

{

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

   {

        printf("Enter id:\n");

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

        printf("Enter name:\n");

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

        printf("Enter salary:\n");

        scanf("%f",&admins[i].salary);

        printf("Enter allowance:\n");

        scanf("%f",&admins[i].allowance);

   }

}


void display(struct Admin *admins,int n)

{

   printf("\n Admins detail:");
```

```c
    for(int i=0;i<n;i++)
    {
        printf("%d:\n",&admins[i].id);
        printf("%s:\n",admins[i].name);
        printf("%f:\n",&admins[i].salary);
        printf("%f:\n",&admins[i].allowance);
    }
}


4. //HR(id,name,salary,comission):
#include<stdio.h>
struct HR
{
        int id;
        char name[40];
        float salary;
        float comission;
};
void accept(struct HR *hr,int n);
void display(struct HR *hr,int n);
int main()
{
        struct HR hr[4];
        accept(hr,4);
        display(hr,4);
}


void accept(struct HR *hr,int n)
{
    for(int i=0;i<n;i++)
    {
```

```c
        printf("Enter id:\n");

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

        printf("Enter name:\n");

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

        printf("Enter salary:\n");

        scanf("%f",&hr[i].salary);

        printf("Enter comission:\n");

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


void display(struct HR *hr,int n)
{
  printf("\n Admins detail:");
  for(int i=0;i<n;i++)
  {
        printf("%d:\n",&hr[i].id);
        printf("%s:\n",hr[i].name);
        printf("%f:\n",&hr[i].salary);
        printf("%f:\n",&hr[i].comission);
  }
}


5. //SalesManager(id,name,salary,incentive,target)
#include<stdio.h>
struct SalesManager
{
        int id;
        char name[40];
        float salary;
        float incentive;
```

```c
        char target[50];
};
void accept(struct SalesManager *Smanager,int n);
void display(struct SalesManager *Smanager,int n);
int main()
{
        struct SalesManager Smanager[4];
        accept(Smanager,4);
        display(Smanager,4);
}


void accept(struct SalesManager *Smanager,int n)
{
   for(int i=0;i<n;i++)
   {
        printf("Enter id:\n");
        scanf("%d",&Smanager[i].id);
        printf("Enter name:\n");
        scanf("%s",Smanager[i].name);
        printf("Enter salary:\n");
        scanf("%f",&Smanager[i].salary);
        printf("Enter incentive:\n");
        scanf("%f",&Smanager[i].incentive);
        printf("Enetr target:\n");
        scanf("%s",&Smanager[i].target);
   }
}


void display(struct SalesManager *Smanager,int n)
{
   printf("\n Admins detail:");
```

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

    {

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

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

            printf("%f:\n",&Smanager[i].salary);

            printf("%f:\n",&Smanager[i].incentive);

            printf("%s:\n",Smanager[i].target);

    }

}
```

6. //Date(date,month,year) by pass by address:

```c
#include<stdio.h>
struct Date
{

        int date;

        char month[50];

        double year;




};
void accept(struct Date *dates,int n);
void display(struct Date *dates,int n);
void main()
{

   struct Date dates[3];
        accept(dates,3);
        display(dates,3);

}


void accept(struct Date *dates,int n)
```

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

        printf("Enter date:");
        scanf("%d",&dates[i].date);
        printf("Enetr month:\n");
        scanf("%s",dates[i].month);
        printf("Enetr year:\n");
        scanf("%d",&dates[i].year);
    }

}

void display(struct Date *dates,int n)
{
        for(int i=0;i<n;i++)
        {
          printf("%d:\n",dates[i].date);
           printf("%s:\n",dates[i].month);
            printf("%d:\n",dates[i].year);
        }
}
```

7. //Time(hour,min,sec):pass by address

```c
#include<stdio.h>
struct Time
{
        int hour;
        int min;
```

```c
        int sec;



};
void accept(struct Time *time,int n);

void display(struct Time *time,int n);


void main()

{


        struct Time time[3];

        accept(time,3);

        display(time,3);

}


void accept(struct Time *time,int n)

{

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

        {

    printf("Enter time:");

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

    printf("Enetr min:\n");

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

    printf("Enetr sec:\n");

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

  }


}


void display(struct Time *time,int n)
```

```c
{
        for(int i=0;i<n;i++)
        {
          printf("%d:\n",time[i].hour);
          printf("%d:\n",time[i].min);
    printf("%d:\n",time[i].sec);
  }
}
```

9.//Distance(feet,inch)pass by adress:

```c
#include<stdio.h>
struct Distance
{
        int feet;
   float inch;



};
void accept(struct Distance *distance,int n);
void accept(struct Distance *distance,int n);


void main()
{

        struct Distance *distance[3];
        accept(distance,3);
        display(distance,3);
}


void accept(struct Distance *distance,int n)
{
```

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


    printf("Enter feet:");
    scanf("%d",&distance[i].feet);


    printf("Enetr inch:\n");
    scanf("%f",&distance[i].inch);
    }
 }



void display(struct Distance *distance ,int n)
{
        for(int i=0;i<n;i++)
        {
        printf("%d:\n",distance[i].feet);
        printf("%f:\n",distance[i].inch);
    }

}



9. //Complex(real,imaginary):pass by address;
#include<stdio.h>
struct Complex
{
        double real;
    double imaginary;



};
```

```c
void accept(struct Complex *comp,int n);
void display(struct Complex *comp,int n);


void main()
{
        struct Complex comp[1];
        accept(comp,1);
        display(comp,2);
 }


 void accept(struct Complex *comp,int n)
 {
   for(int i=0;i<n;i++)
  {

   printf("Enter real:");
   scanf("%lu",&comp[i].real);
   printf("Enetr imaginary:\n");
   scanf("%lu",&comp[i].imaginary);
  }
}


void display(struct Complex *comp,int n)
{
        for(int i=0;i,n;i++)
        {
         printf("%lu:\n",comp[i].real);
         printf("%lu:\n",comp[i].imaginary);
        }
}
```

```c
10. //Product(id,name,quantity):pass by adress:
#include<stdio.h>
struct Product
{
        int id;
        char name[40];
        int quantity;
    int price;



};


void accept(struct Product *product,int n);
void display(struct Product *product,int n);


void main()
{
        struct Product product[2];
        accept(product,2);
        display(product,2);


 }


 void accept(struct Product *product,int n)
 {
    for(int i=0;i<n;i++)
    {


       printf("Enter id:");
       scanf("%d",&product[i].id);
```

```c
        printf("Enetr name:\n");

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

        printf("Enter quantity:\n");

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

        printf("Enter price:\n");

        scanf("%d",&product[i].price);

            }

}


void display(struct Product *product,int n)
{
        for(int i=0;i<n;i++)
        {
    printf("%d:\n",product[i].id);
         printf("%s:\n",product[i].name);
         printf("%d:\n",product[i].quantity);
         printf("%d:\n",product[i].price);

}
}
```

Type 3:pass one structure variable to function by address:

1. //student(rollNO,name,marks)pass one structure to function by address:


```c
#include<stdio.h>
struct Student
{
        int rollNO;
        char name[30];
```

```c
        float marks;

};
int main()
{
  struct Student s;
  printf("Enter student rollNO:\n");
  scanf("%d",&s.rollNO);
  printf("Enter student name:\n");
  scanf("%s",s.name);
  printf("Enter student marks:\n");
  scanf("%f",&s.marks);


  displayStudent(&s);
}


void displayStudent(struct Student *s)
{
        printf("Student details:\n");
        printf("rollNO:%d\n",s->rollNO);
        printf("Name:%s\n",s->name);
        printf("Marks:%f\n",s->marks);
}


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


#include<stdio.h>
struct Employee
{
        int id;
        char name[50];
```

```c
        float salary;


};
void display(struct Employee *e);


void main()
{
        struct Employee emp1,emp2;
        printf("Enter data for employee1: \n");
        printf("id : \n");
        scanf("%d",&emp1.id);
        printf("name: \n");
        scanf("%s",emp1.name);
        printf("sala,ry: \n");
        scanf("%f",&emp1.salary);


        printf("Enter data for employee2: \n");
        printf("id : \n");
        scanf("%d",&emp2.id);
        printf("name: \n");
        scanf("%s",emp2.name);
        printf("salary: \n");
        scanf("%f",&emp2.salary);


        display(&emp1);
        display(&emp2);


}


void display(struct Employee *e)
{
```

```c
        printf("Student Details-----------\n");

        printf("id:%d\n",e->id);

        printf("name:%s\n",e->name);

        printf("salary:%.2f\n",e->salary);

}
```

3. //HR:(id,name,salary,commission)

```c
#include<stdio.h>
struct Hr
{
        int id;
        char name[30];
        float salary,commission;

};

void main()
{

        struct Hr h1,h2;
        printf("Enetr id of hr:\n");
        scanf("%d",&h1.id);
        printf("Enetr name of hr:\n");
        scanf("%s",h1.name);
        printf("Enter salary of hr:\n");
        scanf("%f",&h1.salary);
        printf("Enetr commission of hr:\n");
        scanf("%f",&h1.commission);

        printf("Enetr id of hr:\n");
```

```c
        scanf("%d",&h2.id);

        printf("Enetr name of hr:\n");

        scanf("%s",h2.name);

        printf("Enter salary of hr:\n");

        scanf("%f",&h2.salary);

        printf("Enetr commission of hr:\n");

        scanf("%f",&h2.commission);


        display(&h1);

        display(&h2);
}
void display(struct Hr *h)
{
  printf("id:%d\n",h->id);

  printf("name:%s\n",h->name);

  printf("salary:%f\n",h->salary);

  printf("commission:%f",h->commission);
}


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


#include<stdio.h>
struct Hr
{
        int id;

        char name[30];

        float salary,commission;


};


void main()
```

```c
{
        struct Hr h1,h2;
        printf("Enetr id of hr:\n");
        scanf("%d",&h1.id);
        printf("Enetr name of hr:\n");
        scanf("%s",h1.name);
        printf("Enter salary of hr:\n");
        scanf("%f",&h1.salary);
        printf("Enetr commission of hr:\n");
        scanf("%f",&h1.commission);


        printf("Enetr id of hr:\n");
        scanf("%d",&h2.id);
        printf("Enetr name of hr:\n");
        scanf("%s",h2.name);
        printf("Enter salary of hr:\n");
        scanf("%f",&h2.salary);
        printf("Enetr commission of hr:\n");
        scanf("%f",&h2.commission);


        display(&h1);
        display(&h2);
}
void display(struct Hr *h)
{
  printf("id:%d\n",h->id);
  printf("name:%s\n",h->name);
  printf("salary:%f\n",h->salary);
  printf("commission:%f",h->commission);
}
```

5. //salesManager:(id,name,salary,incentive,target)

```c
#include<stdio.h>
struct SalesManager
{
        int id;
        char name[50];
        double salary;
        float incentive;
        char target[40];

};
void display(struct SalesManager *s);

void main()
{
        struct SalesManager s1,s2;
   printf("Enter data for first 1: ");
   printf("Enter id:");
   scanf("%d",&s1.id);
   printf("Enetr name:\n");
   scanf("%s",s1.name);
   printf("Enetr incentive:\n");
   scanf("%f",&s1.incentive);
   printf("Enetr target:\n");
   scanf("%s",s1.target);

   printf("Enetr data for second manager:\n");
   printf("Enetr id:\n");
   scanf("%d",&s2.id);
```

```c
    printf("Enter name:\n");

    scanf("%s",s2.name);

    printf("Enetr incentive:\n");

    scanf("%f",&s2.incentive);

    printf("Enter target:");

    scanf("%s",s2.target);


    display(&s1);

    display(&s2);


}


void display(struct SalesManager *s)

{

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

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

        printf("%f:\n",s->incentive);

        printf("%s:\n",s->target);

}


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

#include<stdio.h>

struct Date

{

        int date;

        char month[50];

        double year;



};

void display(struct Date *d);
```

```c
void main()
{
        struct Date d1,d2;
    printf("Enter data for date1: ");
    printf("Enter date:");
    scanf("%d",&d1.date);
    printf("Enetr month:\n");
    scanf("%s",d1.month);
    printf("Enetr year:\n");
    scanf("%d",&d1.year);

    printf("Enter data for date2: ");
    printf("Enter date:");
    scanf("%d",&d2.date);
    printf("Enetr month:\n");
    scanf("%s",d2.month);
    printf("Enetr year:\n");
    scanf("%d",&d2.year);

    display(&d1);
    display(&d2);

}

void display(struct Date *d)
{
        printf("%d:\n"d->date);
        printf("%s:\n",d->month);
        printf("%d:\n",d->year);
}
```

```c
7. //Time(hour,min,sec):
#include<stdio.h>
struct Time
{
        int hour;
        int min;
        int sec;



};
void display(struct Time *t);

void main()
{
        struct Time t1,t2;
    printf("Enter data for time1: ");
    printf("Enter time:");
    scanf("%d",&t1.hour);
    printf("Enetr min:\n");
    scanf("%d",&t1.min);
    printf("Enetr sec:\n");
    scanf("%d",&t1.sec);

    printf("Enter data for time1: ");
    printf("Enter time:");
    scanf("%d",&t2.hour);
    printf("Enetr min:\n");
    scanf("%d",&t2.min);
    printf("Enetr sec:\n");
    scanf("%d",&t2.sec);
```

```c
        display(&t1);

        display(&t2);


}


void display(struct Time *t)

{
        printf("%d:\n",t->hour);

        printf("%d:\n",t->min);

        printf("%d:\n",t->sec);
}
```

8. //Distance(feet,inch)

```c
#include<stdio.h>
struct Distance
{
        int feet;
    float inch;



};
void display(struct Distance *d);


void main()
{
        struct Distance d1,d2,d3;
    printf("Enter data for d1: ");
    printf("Enter feet:");
    scanf("%d",&d1.feet);
```

```c
    printf("Enetr min:\n");

    scanf("%f",&d1.inch);


    printf("Enter data for d2: ");

    printf("Enter feet:");

    scanf("%d",&d2.feet);

    printf("Enetr min:\n");

    scanf("%f",&d2.inch);


    printf("Enter feet:");

    scanf("%d",&d3.feet);

    printf("Enetr inch:\n");

    scanf("%f",&d3.inch);



    display(&d1);

    display(&d2);

    display(&d3);

}


void display(struct Distance *d)

{

        printf("%d:\n",d->feet);

        printf("%f:\n",d->inch);


}


9. //Complex(real,imaginary)

#include<stdio.h>

struct Complex
```

```c
{
        double real;
    double imaginary;



};
void display(struct Complex *c);

void main()
{
        struct Complex c1,c2;
    printf("Enter data for complex1: ");
    printf("Enter real:");
    scanf("%lu",&c1.real);
    printf("Enetr imaginary:\n");
    scanf("%lu",&c1.imaginary);


    printf("Enter data for c2: ");
    printf("Enter real:");
    scanf("%lu",&c2.real);
    printf("Enetr min:\n");
    scanf("%lu",&c2.imaginary);



    display(&c1);
    display(&c2);
}


void display(struct Complex *c)
{
        printf("%lu:\n",c->real);
```

```c
        printf("%lu:\n",c->imaginary);


}


10. //Product(id,name,quantity)
#include<stdio.h>
struct Product
{
        int id;
        char name[40];
        int quantity;
    int price;



};
void display(struct Product *p);


void main()
{
        struct Product p1,p2;
    printf("Enter data for p1: ");
    printf("Enter id:");
    scanf("%d",&p1.id);
    printf("Enetr name:\n");
    scanf("%s",p1.name);
    printf("Enter quantity:\n");
    scanf("%d",&p1.quantity);
    printf("Enter price:\n");
    scanf("%d",&p1.price);


    printf("Enter data for p2: ");
```

```c
    printf("Enter id:");
    scanf("%d",&p2.id);
    printf("Enetr name:\n");
    scanf("%s",p2.name);
    printf("Enter quantity:\n");
    scanf("%d",&p2.quantity);
    printf("Enter price:\n");
    scanf("%d",&p2.price);


    display(&p1);
    display(&p2);
}

void display(struct Product *p)
{
        printf("%d:\n",p->id);
        printf("%s:\n",p->name);
```