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);
	}
}
```