

18-12-2023

3) #include <stdio.h>

struct date {

int dd;

int mm;

int yyyy;

};
struct studentbook {

char name[100];

int usn;

int bookid[4];

struct date isd[4];

int bookcost[4];

struct date crd[4];

struct date rtd[4];

int rem[4];

void main()

{

int i=0, n;

struct studentbook s1;

```

printf("Enter the name of student: ");
scanf("%s", s1.name);
printf("USN: ");
scanf("%d", &s1.usn);
printf("Enter the no. of books to be taken: ");
scanf("%d\n", &n);
if(n > 4)
{
    printf("No more books to be issued\n");
}
else if(n < 4)
{
    for(i = 0; i < n; i++)
    {
        int rd = 0, rm = 0, ry = 0, fine = 0;
        printf("Enter book id %d : ", (i+1));
        scanf("%d", &s1.bookid[i]);
        printf("Enter the issue date {dd-mm-yyyy}");
        scanf("%d\n%d\n%d", &s1.isd[i].dd, &s1.isd[i].mm, &s1.isd[i].yyyy);
        printf("Enter the cost of book: ");
        scanf("%d", &s1.bookcost[i]);
        s1.rtd[i].mm = (s1.isd[i].mm + 3);
        if(s1.rtd[i].mm > 12)
        {
            s1.rtd[i].mm = s1.rtd[i].mm - 12;
            s1.rtd[i].yyyy++;
        }
        printf("The ret. date is %d-%d-%d: \n",
            s1.rtd[i].dd, s1.rtd[i].mm, s1.rtd[i].yyyy);
    }
}

```



```

printf("The current date is {dd-mm-yyyy} : ", in);
scanf("%d %d %d", &sl.crd[i].dd, &sl.crd[i].mm,
        &sl.crd[i].yyyy);
if (sl.crd[i].dd > sl.isd[i].dd)
{
    rd = sl.crd[i].dd - sl.isd[i].dd;
}
else
{
    rd = 30 - sl.isd[i].dd + sl.crd[i].dd;
}
if (sl.crd[i].mm > sl.isd[i].mm)
{
    rm = sl.crd[i].mm - sl.isd[i].mm;
}
if (sl.crd[i].yyyy > sl.isd[i].yyyy)
{
    ry = sl.crd[i].yyyy - sl.isd[i].yyyy;
    if (sl.crd[i].mm < sl.isd[i].mm)
    {
        rm = 12 * (ry) + (sl.crd[i].mm - sl.isd[i].mm);
        if (sl.crd[i].mm < sl.isd[i].mm)
        {
            rm = 12 * (ry) + (sl.crd[i].mm - sl.isd[i].mm);
        }
    }
    rd = rd + rm * 30;
    sl.rem[i] = rd;
    printf("No. of days : ", sl.rem[i]);
}

```

```

if (sl.rem[i] - 90 < 0)
{
    printf("book to be given: %d", (90 - sl.rem[i]));
}
else if (sl.rem[i] - 90 > 0)
{
    fine = sl.bookcost[i] + 50 * (sl.rem[i] - 90);
    printf("Fine to be paid is %d", fine);
}
printf("He/she can still take %d books \n", (4 - n));
}
}
}

```

O/p:-

Enter the no. of books he/she has taken: 4

No more books can be taken.