

	M	T	W	T	F	S	S
	1	2	3
4	5	6	7	8	9	10	
11	12	13	14	15	16	17	
18	19	20	21	22	23	24	
25	26	27	28	29	30	.	

(Array) of structures.

01-03-2011

Tuesday
060-305 • Week 09

MARCH

01

37. Write a program to calculate the subject-wise and student-wise totals and store them as a part of the structure.

Appointments Meetings

struct marks

```
{
    int sub1;
    int sub2;
    int sub3;
    int total;
};
```

main (-)

```
{
    int i;
    struct marks student [3] = { { 45, 67, 81, 0 },
                                  { 75, 53, 69, 0 },
                                  { 57, 36, 71, 0 }
    };
```

struct marks total;

```
for (i = 0; i <= 2; i++)
```

```
{
```

```
    student [i]. total = student [i]. sub1 +
                        student [i]. sub2 +
                        student [i]. sub3;
```

```
    total. sub1 = total. sub1 + student [i]. sub1;
```

```
    total. sub2 = total. sub2 + student [i]. sub2;
```

```
    total. sub3 = total. sub3 + student [i]. sub3;
```

```
    total. total = total. total + student [i]. total;
```

```
}
```

```
printf (" STUDENT TOTAL \n\n");
```

Appointments Meetings

```

for (i=0; i<=2; i++)
    printf(" Student [%d] %d\n", i+1, student[i].total);
printf("\n SUBJECT TOTAL\n");
printf("%s %d\n %s %d\n %s %d\n",
        " subject 1 ", total.sub1,
        " subject 2 ", total.sub2,
        " subject 3 ", total.sub3);
printf("\n Grand Total = %d\n", total.total);
}

```

OUTPUT:

STUDENT	TOTAL
student [1]	193
student [2]	197
student [3]	164

SUBJECT	TOTAL
subject 1	177
subject 2	156
subject 3	221

Grand Total = 554