**C Programming and Data Structures**

**Computer Science and Technology-B**

**Week 8**

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8. One needs to first input a set of N number of ALPHABETIC Strings each representing a name

of a student in an array studname [N] . Assume each string can be Max. 40 Characters long.

subsequently, one needs to input Marks obtained by those students in another array marks [N]

Assume that studname [I] i.e. ith student in the list of student names has obtained Marks [I] in the

Marks List. You need to find out and print the Max Marks obtained by a student and also print

the name of the student who has obtained this marks.

**Program:**

#include<stdio.h>

void main()

{

int i,k,n,max=0,marks[100];

printf("Enter number of students: ");

scanf("%d",&n);

char student[100][40];

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

{

printf("Enter student name: ");

scanf("%s",&student[i]);

printf("Enter marks of %s : ",student[i]);

scanf("%d",&marks[i]);

}

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

{

if(max<marks[i])

{

max=marks[i];

k=i;

}

}

printf("%s got maximum marks: %d",student[k],marks[k]);

}

**Output:**

Enter number of students: 5

Enter student name: Ramu

Enter marks of Ramu: 75

Enter student name: Mahalakshmi

Enter marks of Mahalakshmi: 96

Enter student name: Subramanyam

Enter marks of Subramanyam: 87

Enter student name: Parvathi

Enter marks of Parvathi: 85

Enter student name: Maheshwar

Enter marks of Maheshwar: 78

Mahalakshmi got maximum marks: 96