**LAB 2:**

**Write a program to create a structure student with fields name, roll number , semester, marks in 3 details and display the same using pointer to structure. Find student wise and subject wise total marks and display the same.**

#include <stdio.h>

#include <stdlib.h>

struct student

{

char name[30];

int rollno, sem;

float m1,m2,m3;

}s[3];

int main()

{

struct student \*ptr;

float sub1=0, sub2=0, sub3=0;

ptr=&s;

int i;

float total=0;

float s1total=0, s2total=0, s3total=0;

for(i=0;i<3;i++)

{

printf("enter student details %d \n",i+1);

printf("enter the name:");

scanf("%s",ptr->name);

printf("enter roll number:");

scanf("%d",&ptr->rollno);

printf("enter present sem:");

scanf("%d",&ptr->sem);

printf("enter mark 1:");

scanf("%f",&ptr->m1);

printf("enter mark 2:");

scanf("%f",&ptr->m2);

printf("enter mark 3:");

scanf("%f",&ptr->m3);

ptr++;

}

ptr=s;

for(i=0;i<3;i++)

{

printf("student details are\n",i+1);

printf("Name:%s\n Roll Number:%d\n Semester:%d\n Mark1:%f\n Mark2:%f\n Mark3:%f\n",ptr->name,ptr->rollno,ptr->sem,ptr->m1,ptr->m2,ptr->m3);

ptr++;

}

ptr=s;

for(i=0;i<3;i++)

{

printf("Total marks obtained by the %d student:\n",i+1);

total=ptr->m1 + ptr->m2 + ptr->m3;

printf("%f",total);

ptr++;

}

ptr=s;

for(i=0;i<3;i++)

{

sub1=sub1+ptr->m1;

sub2=sub2+ptr->m2;

sub3=sub3+ptr->m3;

ptr++;

}

printf("total of subject1 is %f:\n",sub1);

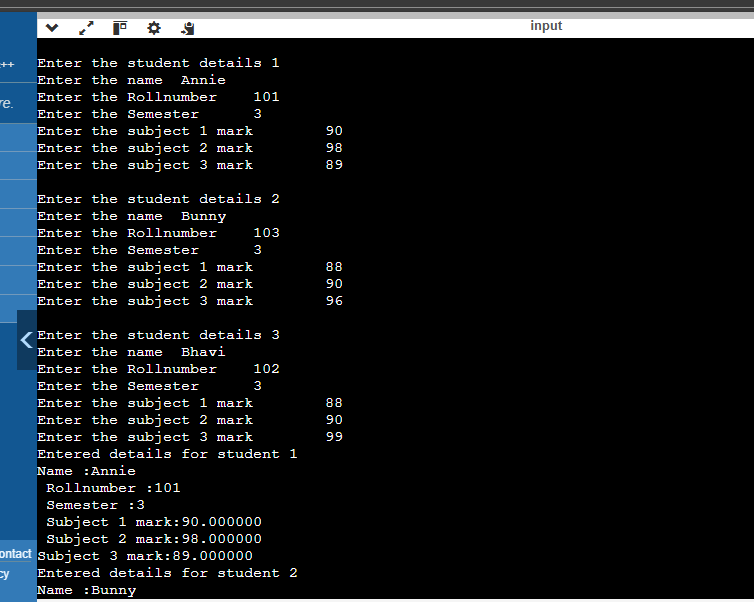
printf("total of subject2 is %f\n:",sub2);

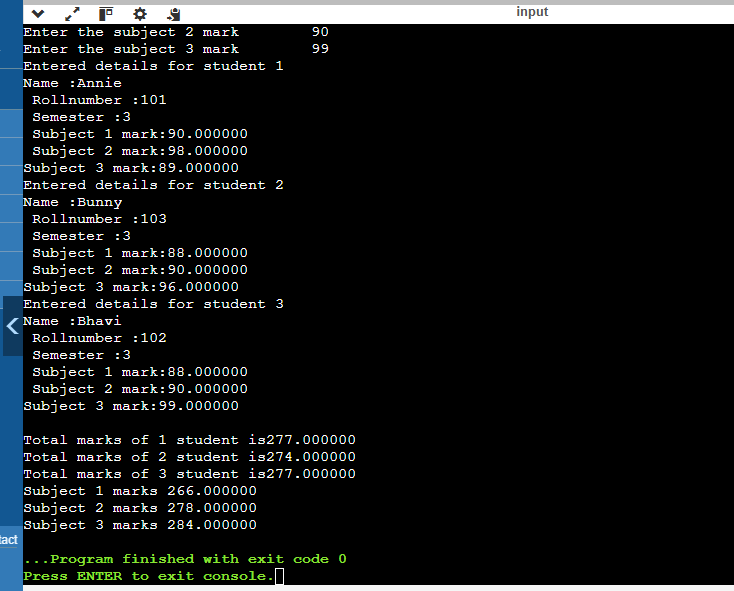
printf("total of subject3 is %f\n:",sub3);

return 0;

}

**OUTPUT:**

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