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#include <stdio.h>

int ns;

struct students
{
    char name[25];
    int rollno;
    int marks[11];
};

int main()
{
    int n,i,j,op,rn,op1,op2=2,mm;
    double markss,markss1,markss2=0,markss3=0;
    char sn[20];
    printf("ENTER THE NUMBER OF STUDENTS\n");
    scanf("%d",&n);
    struct students st[n];
    printf("ENTER THE NUMBER OF SUBJECTS\n");
    scanf("%d",&ns);
    printf("ENTER THE MAXIMUM MARKS\n");
    scanf("%d",&mm);
    for(i=0;i<n;i++)
    {
        printf("THE NAME OF THE STUDENT\n");
        scanf("%s",st[i].name);
        printf("THE ROLL NO. OF THE STUDENT\n");
        scanf("%d",&st[i].rollno);
        printf("ENTER THE NAME OF THE SUBJECT AND MARKS OBTAINED IN IT:-\n");
        for(j=0;j<ns;j++)
        {
            printf("ENTER THE NAME OF SUBJECT\n");
            scanf("%s",sn);

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        printf("ENTER THE MARKS OBTAINED IN %s\n",sn);

        scanf("%d",&st[i].marks[j]);
    }

    printf("=====\n");
}

    printf("ENTER 1 TO OPEN MAIN MENUE\n");

    scanf("%d",&op1);
while(op2==2)
{
    switch(op1)
    {
        case 1:
            printf("NOW ENTER YOUR CHOICE ACCORDING TO THIS:-\n");
            printf("ENTER 1 FOR SEEING THE HIGHEST MARKS OF A STUDENT\n");
            printf("ENTER 2 FOR SEEING THE LOWEST MARKS OF A STUDENT\n");
            printf("ENTER 3 FOR SEEING THE AVERRAGE MARKS OF A STUDENT OF A STUDENT\n");
            printf("ENTER 4 FOR SEEING THE PERCENTAGE OBTAINED BY A STUDENT\n");
            scanf("%d",&op);
            switch(op)
            {
                case 1:
                    printf("THE ROLL NO OF THE STUDENT\n");
                    scanf("%d",&rn);
                    for(i=0;i<n;i++)
                    {
                        if(rn==st[i].rollno)
                        {
                            for(j=0;j<ns;j++)
                            {
                                if(st[i].marks[0]<st[i].marks[j])
                                {

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        markss=st[i].marks[j];
    }
}
}
}

printf("HIGHEST MARKS BY ROLL NO. %d is %f\n",rn,markss);
printf("ENTER 2 TO RETURN TO MAIN MENUE\n");
printf("ENTER ANY OTHER NUMBER TO EXIT\n");
scanf("%d",&op2);
break;

case 2:

printf("ENTER THE ROLL NO OF THE STUDENT\n");
scanf("%d",&rn);
for(i=0;i<n;i++)
{
    if(rn==st[i].rollno)
    {
        for(j=0;j<ns;j++)
        {
            if(st[i].marks[0]>st[i].marks[j])
            {
                markss1=st[i].marks[j];
            }
        }
    }
}

printf("LOWEST MARKS BY ROLL NO. %d is %f\n",rn,markss1);
printf("ENTER 2 TO RETURN TO MAIN MENUE\n");
printf("ENTER ANY OTHER NUMBER TO EXIT\n");
scanf("%d",&op2);
break;

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case 3:

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printf("ENTER THE ROLL NO OF THE STUDENT\n");
scanf("%d",&rn);
for(i=0;i<n;i++)
{
    if(rn==st[i].rollno)
    {
        for(j=0;j<ns;j++)
        {
            markss2=markss2+st[i].marks[j];
        }
        printf("AVERAGE MARKS OF ROLL NO. %d IS %.2lf\n",rn,(markss2/ns));
    }
}
printf("ENTER 2 TO RETURN TO MAIN MENUE\n");
printf("ENTER ANY OTHER NUMBER TO EXIT\n");
scanf("%d",&op2);
break;
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case 4:

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printf("ENTER THE ROLL NO OF THE STUDENT\n");
scanf("%d",&rn);
for(i=0;i<n;i++)
{
    if(rn==st[i].rollno)
    {
        for(j=0;j<ns;j++)
        {
            markss3=markss3+st[i].marks[j];
        }
        markss3=(markss3/(mm*ns))*100;
        printf("PERCENTAGE OBTAINED BY ROLL NO. %d IS %.2lf\n",rn,markss3);
    }
}
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    }
}

printf("ENTER 2 TO RETURN TO MAIN MENUE\n");
printf("ENTER ANY OTHER NUMBER TO EXIT\n");
scanf("%d",&op2);

break;

default:

printf("=====WRONG CHOICE=====\\n");
printf("ENTER 2 TO RETURN TO MAIN MENUE\n");
printf("ENTER ANY OTHER NUMBER TO EXIT\n");
scanf("%d",&op2);
}

break;

default:

printf("=====WRONG CHOICE=====\\n");
printf("ENTER 1 TO OPEN MAIN MENUE\n");
printf("ENTER ANY OTHER NUMBER TO EXIT\n");
scanf("%d",&op1);
}

}

printf("=====THANKYOU=====");

return 0;

}

```