Answer - Economics students (b)

```
#include <stdio.h>
#include <stdlib.h>
#include <ctype.h>
#include <string.h>
#include <math.h>
int main(int argc, char *argv[])
{
       int n,x;
       x=scanf("%d",&n);
       if(x<0)
                       return 1;
       float marks[n];
       for(int i=0;i<n;i++)
               {
                      float y;
                       x=scanf("%f",&y);
                       if(x<0)
                                     return 1;
                      if(y>100 || y<0)
                                      printf("INVALID INPUT");
                                     return 0;
                       else
                              {
                                     marks[i]=y;
       double mean=0, variance=0, standard_deviation;
       for(int i=0;i< n;i++)
               {
                       mean=(mean+marks[i]);
       mean=mean/n;
       for(int i=0;i< n;i++)
               {
                       variance=(variance+((marks[i]-mean)*(marks[i]-mean)));
       standard_deviation=sqrt(variance)/sqrt(n);
       printf("%f %f %f",mean,variance/n,standard_deviation);
}
```