~\Desktop\CPROGRAMMES\assignment2.c

```c
#include<stdio.h>
#include<math.h>
int main(){
    //Q1
    int n,smarks[n];

    for(int i=0;i<n;i++){
        printf("enter the marks of student %d:",i+1);
        scanf("%d",&smarks[i]);
    }
    for(int i=0;i<n;i++){
        printf("updated marks of student:%d",i+1);
        smarks[i]=smarks[i]+5;
        printf("%d\n",smarks[i]);



    }
    //Q2
    int m,marks[80];
    printf("how many students are there:");
    scanf("%d",&m);
    for(int i=0;i<m;i++){
        printf("enter marks of student %d:",i+1);
        scanf("%d",&marks[i]);
    }

    for(int i=0;i<m;i++){
        printf("The grade of student %d is:",i+1);
        if(marks[i]>=75){
            printf("A GRADE\n");
        }
        else if(marks[i]>=60 && marks[i]<=74){
            printf("B GRADE\n");
        }
        else if(marks[i]>=40 && marks[i]<=59){
            printf("C GRADE\n");
        }
        else{
            printf("D GRADE\n");
        }

    }
    //Q3
    for(int i=0;i<m;i++){
        if(marks[i]==99){
            printf("The first 99 marks are secured by student %d\n",i+1);
            break;
        }
    }
    //Q4
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    int count=0;
    for(int i=0;i<m;i++){
        if(marks[i]==99){
            printf("student %d secured 99 marks\n");
            count++;
        }
    }
    printf("The number of students who secured 99 marks are:%d\n",count);
    //Q5
    int sum=0;
    for(int i=0;i<m;i++){
        sum=sum+marks[i];
    }
    printf("The sum of scores is:%d\n",sum);
    //Q6
    float avg;
    avg=(float)sum/m;
    printf("The average score is:%f\n",avg);
    //Q7
    for(int i=0;i<m;i++){
        if(marks[i]%2==0){
            printf("Marks scored by student %d is even\n",i+1);
        }
        else{
            printf("Marks scored by student %d is odd\n",i+1);
        }
    }
    //Q8
    int max,min;
    for(int i=0;i<m;i++){
        if(marks[i]<=marks[0]&&marks[i]<=marks[i-1]){
            min=marks[i];
        }
    }
    for(int i=0;i<m;i++){
        if(marks[i]>=marks[0]&&marks[i]>=marks[i-1]){
            max=marks[i];
        }
    }
    printf("maximum marks:%d\nminimum marks:%d\n",max,min);
    //Q9
    int a;
    printf("enter the length of your array");
    scanf("%d",&a);
    int arr[a];
    for(int i=0;i<a;i++){
        printf("enter the element %d:",i+1);
        scanf("%d",&arr[i]);
    }
    printf("the elements are:\n");
    for(int i=0;i<a;i++){
        if(i==0){
            if(arr[0]>arr[1]){
                printf("%d\n",arr[0]);
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            }

        }
        else if(arr[i]>arr[i-1]&&arr[i]>arr[i+1]){
            printf("%d\n",arr[i]);
        }
    }
    //Q10
    int b,p=0,f;
    printf("enter the length of the array");
    scanf("%d",&b);
    int c[b];
    for(int i=0;i<b;i++){
        printf("enter the element %d",i+1);
        scanf("%d",&c[i]);
    }
    for(int i=0;i<b;i++){
        for(int j=2;j<c[i];j++)
        {
            if(c[i]%j==0){
                f=1;
            }
            else{
                f=0;
            }
        }
        if(f==0){
            p++;
        }
    }
    printf("there are %d prime numbers",p);



}
```