# Project

Write a program that first print the student's marks data given in the attached excel file then show the horizontal bar chart of the grades frequency which student achieved and in the last tell us which grade category got maximum and minimum number of students.

Your program should display according to the following samples output.

Sample 1

```
C:\Users\OWNER\Documents\C++ programs\Assignments\Project_Math206F21.exe                    —    □    X

120 Students marks data of subject Math206
60  55  61  56  68  84  73  52  63  50  68  65  87  80  67  83  53  63  85  84  76  72  61  85  52  77  73  81  63  77
81  60  70  87  69  61  72  62  78  64  67  75  86  61  81  77  86  49  62  74  59  57  76  72  71  74  49  61  66  57
71  80  64  87  51  60  68  50  77  70  69  81  82  79  60  66  78  52  52  58  68  86  76  60  59  82  84  73  58  51
81  71  85  50  71  59  81  55  65  63  81  75  56  60  53  74  70  54  53  67  84  70  49  50  80  66  63  79  62  69


A+   0
A    *********  9
B+   ***************** 17
B    ************* 13
B-   ***************** 17
C+   *************** 15
C    ********************* 21
D    *********** 11
F    ************** 14

21 students got the grade C.
0 students got the grade A+.

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```

Sample 2

```
C:\Users\OWNER\Documents\C++ programs\Assignments\Project_Math206F21.exe                    —    □    X

120 Students marks data of subject Math206
76  82  59  77  53  81  53  71  62  80  68  67  83  62  65  86  49  86  55  74  71  75  62  72  80  48  51  86  74  57
64  52  58  58  61  54  61  52  83  51  85  63  49  61  77  79  69  75  83  50  60  49  55  76  76  83  71  50  84  80
48  74  81  86  50  66  71  75  76  74  77  62  71  52  50  87  59  71  86  55  55  61  85  63  58  54  63  62  53  65
51  72  48  70  79  57  65  70  50  67  73  56  81  86  81  68  59  77  57  86  72  72  54  51  58  82  84  75  77  57


A+   0
A    **********  10
B+   *************** 15
B    *************** 15
B-   ***************** 17
C+   *********  9
C    ************** 14
D    *************** 16
F    ***************** 18

18 students got the grade F.
0 students got the grade A+.

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```

Grading criteria should be according to the following table.

| Serial # | Marks Range | Awarded Grade |
|---|---|---|
| 1 | >=85 | A+ |
| 2 | 80-84 | A |
| 3 | 75-79 | B+ |
| 4 | 70-74 | B |
| 5 | 65-69 | B- |
| 6 | 60-64 | C+ |
| 7 | 55-59 | C |
| 8 | 50-54 | D |
| 9 | <=49 | F |

Instructions: -

1. You can only use those commands which you will learn till the submission dead line.
2. Use of commands other than defined in clause 1 are strictly prohibited.
3. Your program should be well formatted.
4. Your program code must be optimized (one with least possible number of code lines).
5. Your output format should be strictly according to the sample outputs.
6. your program must be capable of displaying the required outputs for any 120 student's marks data given in the file.