Problem 1: You are given a list of **exam marks** as follows:

```
exam_marks =[
{
 "ID":"214001",
 "name": "A",
 "CT": [18,7,17,11],#4 class test marks(out of 20 marks for each,total
60),consider only best 3
 "Final_Exam": [[25,20,33],[10,34,15]], #marks of sectionA(out of 105) and
sectionB (out of 105)
 "Attendance": [27,36] # total presents, total classes (total marks 30)
},
{
 "ID":"214002",
 "name": "B",
 "CT": [11,17,13,19],
 "Final_Exam": [[28,0,33],[19,30,27]],
 "Attendance": [28,36]
}
,
{
 "ID":"214003",
 "name": "C",
 "CT": [10,14,9,18],
 "Final_Exam": [[14,8,10],[6,13,9]],
 "Attendance": [20,36]
},
{
 "ID":"214004",
 "name": "D",
 "CT": [13,20,16,20],
 "Final_Exam": [[29,17,33],[16,30,25]],
 "Attendance": [32,36]
},
{
 "ID":"214005",
 "name": "E",
 "CT": [0,8,6,0],
 "Final_Exam": [[7,0,8],[11,0,0]],
 "Attendance": [12,36]
}]
```

Now, write a python program that calculates the grade of students and shows the output as following format:

*"**Hello, Student A with ID: 204001 has obtained letter_grade**"*

You have to consider the following distribution of marks for calculating grade:

Attendance:	**10%**
Class test:	**20%**
Final Exam:	**70%**

Letter grade should be calculated as follows:

Letter Grade	Numerical Equivalent
A+	80% and above
A	75% to below 80%
A-	70% to below 75%
B+	65% to below 70%
B	60% to below 65%
B-	55% to below 60%
C+	50% to below 55%
C	45% to below 50%
D	40% to below 45%
F	Less than 40%

Problem 2:

Consider the following text:

The study titled "Present status and historical changes of urban green space in Dhaka city, Bangladesh: A remote sensing driven approach" was published in the US-based "Environmental Challenges" journal in December last year.

You need to write python program(s) with following actions:

a) Print the characters and their frequency of the given text as a dictionary.
b) Sort the above dictionary [**for question (a)]** in descending and ascending order of frequency respectively.
c) Write a python program to store the above text into a file with only three words in each line.