

Problem 1: Write Dictionary Data to a Text File

You are given the following three dictionaries.

1. A person's basic info

```
person = {  
    "name": "Jahid",  
    "age": 30,  
    "city": "Jessore"  
}
```

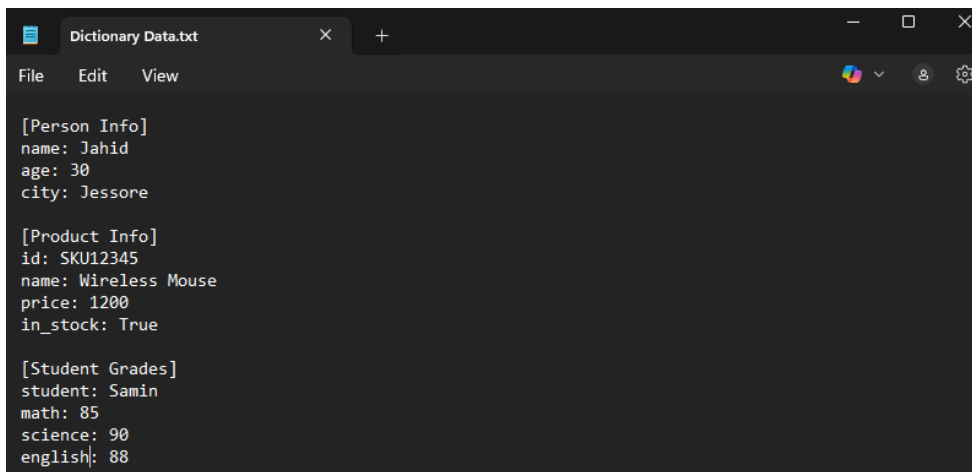
2. Product details

```
product = {  
    "id": "SKU12345",  
    "name": "Wireless Mouse",  
    "price": 1200,  
    "in_stock": True  
}
```

3. Student grades

```
grades = {  
    "student": "Samin",  
    "math": 85,  
    "science": 90,  
    "english": 88  
}
```

Write a Python program that **writes the content of each dictionary** to a file named `data.txt`. The resulting text file should have the dictionary data in the following format.



```
Dictionary Data.txt  
File Edit View  
[Person Info]  
name: Jahid  
age: 30  
city: Jessore  
  
[Product Info]  
id: SKU12345  
name: Wireless Mouse  
price: 1200  
in_stock: True  
  
[Student Grades]  
student: Samin  
math: 85  
science: 90  
english: 88
```

Problem 2: Find the most repeated word in a text file

Write a Python program that opens and reads the Repeated Lines.txt and finds the **most frequently occurring word**.

Hint : You can save each word in a list after removing spaces and punctuation. Then find the frequency of each word and finally print the word which has the maximum frequency.

Sample input: The quick brown fox jumps over the lazy dog. The dog barked and the fox ran away. Foxes are quick and clever animals.

Sample output: The most repeated word is 'the' which appears 5 times.

Bonus: Can you print all words sorted by frequency (from highest to lowest)?

Problem 3: Search for a word in a text file

You're given a text file called `Search String.txt` that contains multiple lines of text. Write a Python program that Opens and reads the `Search String.txt` file to see if the word "practice" is inside the file regardless of case sensitivity (capitalisation does not matter). If found, prints "Word exists". If not found, prints "Word does not exist".

Sample Input: The file has the following text -

Python is a versatile programming language.

It is widely used for web development, data analysis, and automation.

Learning Python can open many doors in tech.

Remember to practice every day!

Sample Output: Word exists

Bonus: First ask the user to enter the word they want to search for regardless of case sensitivity (capitalisation does not matter). If found, prints "Word exists". If not found, prints "Word does not exist".