# TRIBHUVAN UNIVERSITY

## INSTITUTE OF ENGINEERING

## PULCHOWK CAMPUS

**Assignment 3**

**By:**

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**LALITPUR, NEPAL**

**1. Write the following records into file grocery.txt:**

records = [
{'name':"rice","price":120,"category":"grocery"},
{'name':"sugar","price":220,"category":"grocery"},
{'name':"wheat","price":320,"category":"grocery"},
{'name':"rcereal","price":420,"category":"grocery"},
]
with headings: ID NAME PRICE CATEGORY
again, read the written records from same file and display the
contents as above record.

**Grocery Write Code:**

```
records = [
{'name':"rice","price":120,"category":"grocery"},
{'name':"sugar","price":220,"category":"grocery"},
{'name':"wheat","price":320,"category":"grocery"},
{'name':"rcereal","price":420,"category":"grocery"},
]
with open("grocery.txt", "w") as f:
    f.write("ID\t\tNAME\t\tPrice\t\tCategory\n")
    for i in range(len(records)):
        data = records[i]
```

```python
        f.write(f"{i+1}\t\t{data['name']}\t\t{data['price']}\t\t{data['category']}\n")
```

**Grocery Read Code:**

```python
f = open("grocery.txt", "r")

print("\nGROCERY RECORDS:\n")
line = ""
while True:
    char = f.read(1)
    if not char:
        if line != "":
            print(line)
        break
    if char == "\n":
        print(line)
        line = ""
    else:
        line += char
f.close()
```

## Output In Text File:

```
GROCERY RECORDS:

ID              NAME            Price           Category
1               rice            120             grocery
2               sugar           220             grocery
3               wheat           320             grocery
4               rcereal         420             grocery
```

## Output In Terminal:

```
GROCERY RECORDS:

ID              NAME            Price           Category
1               rice            120             grocery
2               sugar           220             grocery
3               wheat           320             grocery
4               rcereal         420             grocery
```

**2. Write a python code to explain the concept of seek() method in file handling.**

**The seek(offset) method moves the file pointer to a specific position (number of bytes from the start of the file). It's mainly used in reading or writing at a specific position in the file.**

## Code:

```python
with open("sample.txt", "w") as f:
    f.write("Hello, My name is Sinjal Dahal.\nWe are becoming lazy.")


with open("sample.txt", "r") as f:
    print("Reading full file:")
    print(f.read())

    # Move file pointer to the beginning
    f.seek(0)
    print("\nAfter seek(0):")
    print(f.read(5))  # Read first 5 characters

    # Move pointer to position 18
    f.seek(18)
    print("\nAfter seek(18):")
    print(f.read(6))
```

**Output:**

```
Reading full file:
Hello, My name is Sinjal Dahal.
We are becoming lazy.

After seek(0):
Hello

After seek(18):
Sinjal
```

[LINK](#)