

Homework # 10

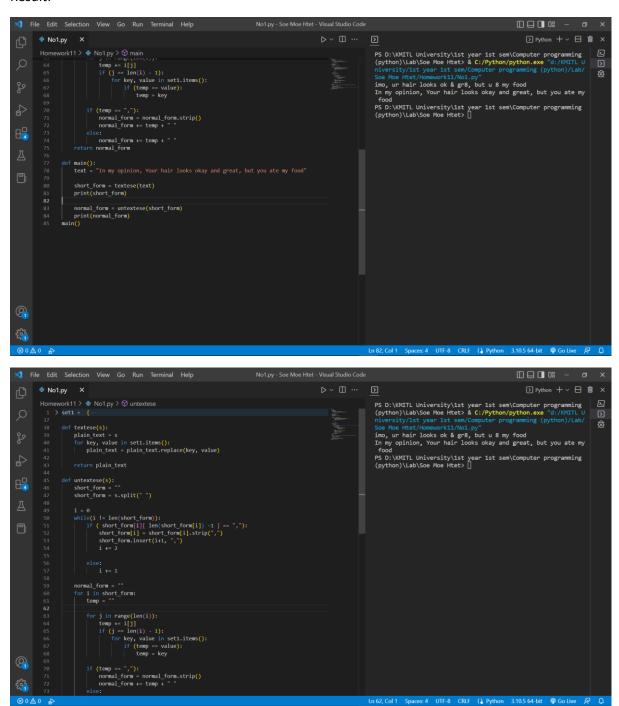
O1286121 Computer Programming Software Engineering Program, Department of Computer Engineering, School of Engineering, KMITL

Ву

65011693 Soe Moe Htet (Nickname – Stephen)

No₁

Result:



Code:

```
set1 = {
                "the": "da",
                "okay": "ok",
                "are": "r",
                "see you": "cu",
                "great": "gr8",
                "mate": "m8",
                "later": "!8r",
                "before": "b4",
                "and": "&",
                "As soon as possible": "asap",
                "At the moment": "atm",
                "Be right back": "brb",
                "By the way": "btw",
                "For your information": "FYI",
                "Laughing out loud": "lol",
                "Oh my god": "omg",
                "Rolling on the floor laughing": "rofl",
                "Talking to you later": "ttyl",
def textese(s):
    plain_text = s
    for key, value in set1.items():
        plain_text = plain_text.replace(key, value)
    return plain_text
def untextese(s):
    short_form = ""
    short_form = s.split(" ")
    i = 0
    while(i != len(short_form)):
        if ( short_form[i][ len(short_form[i]) -1 ] == ","):
            short_form[i] = short_form[i].strip(",")
            short_form.insert(i+1, ",")
```

```
i += 1
    normal_form = ""
    for i in short_form:
       temp = ""
        for j in range(len(i)):
            temp += i[j]
            if (j == len(i) - 1):
                for key, value in set1.items():
                    if (temp == value):
                        temp = key
        if (temp == ","):
            normal_form = normal_form.strip()
            normal_form += temp + " "
           normal_form += temp + " "
    return normal_form
def main():
    text = "In my opinion, Your hair looks okay and great, but you ate my food"
    short_form = textese(text)
    print(short_form)
    normal_form = untextese(short_form)
    print(normal_form)
main()
```

No.2

Result:

Code:

No.3

Result:

Code:

```
def product(*s):
    result = []
    result = [(i, ) for i in s[0]]

    if (len(s) == 1):
        return result

    for i in range(1, len(s)):
        result = [a +(b, ) for a in result for b in s[i]]

    return result

def main():
    s1 = set([1, 2, 3])
    s2 = set(['p', 'q'])
    s3 = set(['a', 'b', 'c'])
    print(product(s1))
    print(product(s1, s2))
    #print(product(s1, s2, s3))
```