

```
file1 = open('Test.txt' , 'r')
file2 = open('test2.txt' , 'r+')
i = 0
for line in file1:
    file2.write(line)
    file2.write(line)
    print(line, end = '')
    print(line, end = '')
    i = i + 1
file1.close()
file2.close()
```

```
def sqr_num(num):  
    return num ** 2  
i_file = 'input.txt'  
o_file = 'output.txt'  
print('Input File: ')  
for i in open(i_file, 'r'):  
    print(i, end = ' ')  
with open(i_file, 'r') as input_file:  
    nums = [int(line.strip()) for line in input_file.readlines()]  
    sqrs = [sqr_num(num) for num in nums]  
    print('')  
    print('Output File: ')  
    with open(o_file, 'w') as output_file:  
        for sqr in sqrs:  
            output_file.write(str(sqr) + '\n')  
            print(sqr)
```

```
i_file = 'name1.txt'
o_file = 'name2.txt'
my_file = 'name3.txt'
print('First Names: ')
for i in open(i_file, 'r'):
    print(i, end = '\n')
with open(i_file, 'r') as input_file:
    firstname = [str(line.strip()) for line in input_file.readlines()]
    first = firstname
    print('')
    print('Last Names: ')
    for x in open(o_file, 'r'):
        print(x, end = '\n')
    with open(o_file, 'r') as output_file:
        lastname = [str(line.strip()) for line in output_file.readlines()]
        last = lastname
        print('')
        print('Full Names: ')
        with open(my_file, 'r+') as m_file:
            with open(i_file, 'r') as input_file:
                with open(o_file, 'r') as output_file:
                    full = [str(line.strip()) for line in input_file.readlines()]
                    name = [str(line.strip()) for line in output_file.readlines()]
                    y = 0
                    for x in open(i_file, 'r'):
                        fir = full[y]
                        las = name[y]
                        m_file.write(str(fir) + str(las))
                        print(fir, las)
                        y = y + 1
```

```
def calculate_mean(grades):
    total = sum(grades)
    return total / 3
inpu = 'grade1.txt'
outpu = 'grade2.txt'
print('Input File: ')
with open(inpu, 'r') as input_file:
    y = 0
    lines = input_file.readlines()
    for i in lines:
        line1 = lines[y]
        print(line1, end = '')
        y = y + 1
    print('')
print('Output File: ')
with open(outpu, 'r+') as output_file:
    x = 0
    for line in lines:
        grades = list(map(int, line.split()))
        mean_grade = calculate_mean(grades)
        output_file.write(f'{mean_grade} ')
        line2 = grades[x]
        print(round(mean_grade))
        x = x + 1
```