AKTU B.Tech Second Year

PYTHON PROGRAMMING

UNIT 4

Python file operations

LEC-3

Today's Target

- **File program**
- **AKTU PYQs**

Gateway classes

By
Pragya Rajvanshi

Construct a program which accepts a sequence of words separated by whitespace as file input. Print the words composed of digits only.(AKTU 2023-24 ODD)

main.py | input.txt

```
1  hello hi1 123 11
```

```
enter the sequence of word seprated by whitespaces
hello hi1 123 11
words composed of digit only


123
11
```

classes

main.py | input.txt

```
1  def create_input_file(filename):
2      user_input=input("enter the sequence of word seprated by whitespaces\n")
3      with open(filename,'w') as file:
4          file.write(user_input)
5  def find_digit_words(filename):
6      with open(filename,'r') as file:
7          content=file.read()
8      x=content.split()
9      digit_words=[word for word in x if word.isdigit()]
10     print("words composed of digit only\n")
11     for y in digit_words:
12         print(y)
13 filename='input.txt'
14 create_input_file(filename)
15 find_digit_words(filename)
```

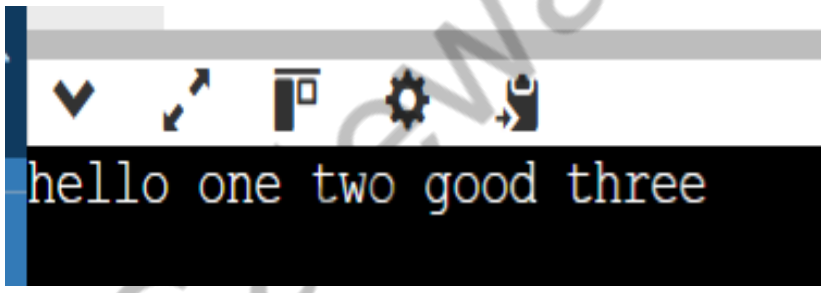
Gateway classes

Write a program that a take space separated words and convert the digit into English word
Like
Hello 1 2
Output hello one two

```
1 hello 1 2 good 3
```

main.py | test.txt

```
1 hello one two good three
```



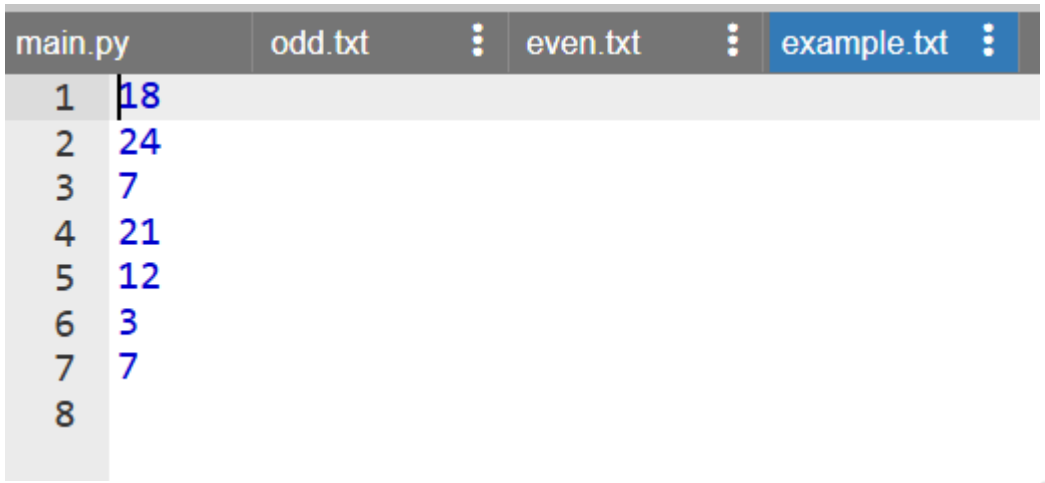
Gateway classes

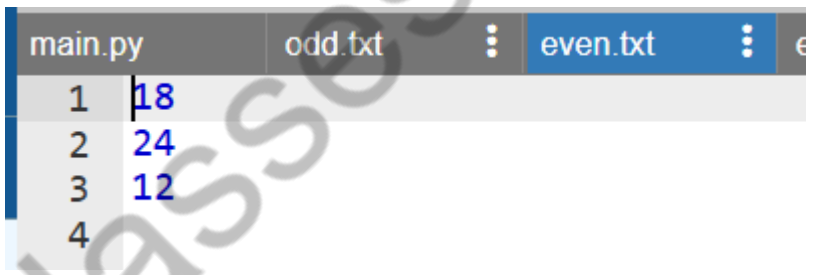
main.py | test.txt

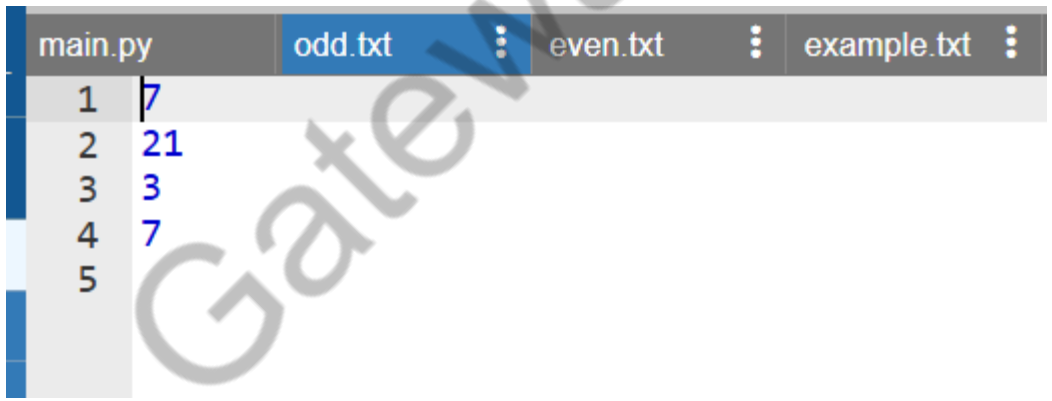
```python
num_to_text={
    '0':'zero','1':'one' ,'2':'two','3':'three','4':'four',
    '5':'five', '7':'seven','8':'eight','9':'nine'
}
def replace_number_with_text(text):
    result=[]
    for char in text:
        if char.isdigit():
          result.append(num_to_text[char])
        else:
            result.append(char)
    return ''.join(result)
def process_file(filename):
    with open(filename,'r') as file:
        content=file.read()
    modified_content=replace_number_with_text(content)
    with open(filename,'w') as file:
        file.write(modified_content)
    print(modified_content)
process_file('test.txt')
```

Gateway classes

There is a file named input.txt .Enter some positive number into the file name input.txt. Read the content of the file and if it is an odd number write it to odd.txt and if number is even the write it to the even.txt







Gateway classes

main.py | odd.txt | even.txt | example.txt

```
with open("example.txt","w") as file:
    file.write("18\n")
    file.write("24\n")
    file.write("7\n")
    file.write("21\n")
    file.write("12\n")
    file.write("3\n")
    file.write("7\n")
file1=open("example.txt",'r')
for i in file1:
    if i.strip:
        num=int(i)
        if num%2==0:
            even=open("even.txt",'a')
            even.write(str(num))
            even.write("\n")
        else:
            odd=open("odd.txt",'a')
            odd.write(str(num))
            odd.write("\n")
```

Gateway classes

Write a python program to find the longest words.

main.py | example.txt

```
1  def find_longest_word(file_name):
2      longest_word = ""
3      with open(file_name, "r") as file:
4          for line in file:
5              # Split the line into words
6              words = line.split()
7   # Check each word's length and update the longest word
8              for word in words:
9                  if len(word) > len(longest_word):
10                     longest_word = word
11     return longest_word
12 file_name = "example.txt"
13 longest_word = find_longest_word(file_name)
14 print("The longest word in the file is:", longest_word)
```

Gateway classes

```
The longest word in the file is: students
```

main.py | example.txt

```
1  hello students unit 4 start
```

Gateway class



Gateway classes