1. Write a python function that copies file reading and writing upto 50 characters at a time

```
In [6]:
    def copy_file():
        f=open('demo.txt','r')
        count=0
        content=f.read()
        raw=[]
        for i in content:
            if count<50:
                raw.append(i)
                      count+=1
                      print(content.read)
        f.close()
        copy_file()</pre>
```

2.Print all numbers present in a text file and print number of blank spaces present in that file

```
In [36]: fl=(open('first.txt','r'))
    content=fl.read()
    rawl=[]
    count1=0
    count2=0
    for i in content:
        rawl.append(i)
        if i==' ':
            count1+=1
    import re
    numbers=re.findall(r'\d+',content)
    print('Numbers are : ', numbers)

print('Number of spaces are ',count1)

Numbers are : []
Number of spaces are 3
```

3. Write a function called sed that takes as argument a pattern string, a replacement string, and two fienames;. It should read the file first and write the contents into the second file. If the pattern string appears anywhere in the file, it should be replaced with a replacement string. If an error occurs while opening, reading, writing, or closing strings, your program should catch the exception, print an error message, and exit

5 write a python code to search for and replace with in the text file

```
f4=open('large_file.txt','w')
In [68]:
          f4.write('Our Prophet Muhammad (sallallahu 'alayhi wa sallam) said: "The seven Heavens compared to the Kursee (
Out[68]:
In [81]: file_path = 'large_file.txt'
    search_text = (input('Enter the text that you want to replace'))
          replace_text = 'Great'
          with open(file_path, 'r') as file:
              file_content = file.read()
          updated_content = file_content.replace(search_text, replace_text,4)
          with open(file path, 'w') as file:
              file.write(updated content)
          print(f"Text '{search_text}' has been replaced with '{replace_text}' in '{file path}'.")
          Enter the text that you want to replacethe
          Text 'the' has been replaced with 'Great' in 'large_file.txt'.
In [84]: ##multiple replacements
          import re
          file path = 'large_file.txt'
          replacements = {
              'is': 'am',
'for': 'that'
          with open(file_path, 'r') as file:
              file content = file.read()
          def multiple_replace(text, replacements):
    pattern = re.compile("|".join([re.escape(key) for key in replacements.keys()]))
               return pattern.sub(lambda x: replacements[x.group()], text)
          updated content = multiple replace(file content, replacements)
          with open(file_path, 'w') as file:
               file.write(updated_content)
          print("Multiple replacements have been performed in '{file path}'.")
          Multiple replacements have been performed in '{file path}'.
```

6.write a python script that concatenates the contents of multiple text files in to a single output file. Allow the user to specify output file and input file

```
In [14]: def concatenate files (input files, output file):
                  with open(output_file, 'w') as output:
                      for input_file in input_files:
                          with open(input_file, 'r' ) as file:
                              output.write(file.read())
                  print(f"Concatenated {len(input files)} files into {output file}")
             except Exception as e:
         print("An error occurred: (str(e)}")
if __name__=="__main__":
              input files = []
             while True:
                  file name = input("Enter an input file (or type 'empty' to finish): ")
                  if file name.lower() == 'empty':
                      break
                  input files.append(file name)
             output file = input("Enter the output file name: ")
              concatenate files (input files, output file)
         Enter an input file (or type 'empty' to finish): empty
         Enter the output file name: tauheer
         Concatenated O files into tauheer
```

7

```
In [18]: # 1)Read words from input file
f8=open('input.txt','r')
content1=f8.read()
print(content1)
```

```
In [19]: # 2) for each word in the input file, xaalculate length of word and store it in a dictionary where the word is k
          # Initialize an empty dictionary to store word is the key and the length is value
         word_lengths = {}
         # Open the input file for reading
with open('input.txt', 'r') as file:
              # Iterate through each line in the file
              for line in file:
                  # Split the line into words
                  words = line.split()
                  # Iterate through each word
                  for word in words:
                      # Calculate the length of the word
                      word_length = len(word)
                      # Store the word and its length in the dictionary
                      word_lengths[word] = word_length
         # Print the dictionary
          for word, length in word_lengths.items():
              print(f'{word}: {length}')
         Allah: 5
         is: 2
         Omnipotent,: 11
         and: 3
         He: 2
         Above: 5
         anything: 8
         else!: 5
         word lengths = \{\}
In [26]:
         with open('input.txt', 'r') as file:
              for line in file:
                  words = line.split()
                  for word in words:
                      word_length = len(word)
                      word lengths[word] = word length
         with open('output.txt', 'w') as output_file:
              for word, length in word_lengths.items():
                  output_file.write(f'{word}: {length}\n')
         print("Transfer of dictionary to the output.txt was done successfully")
          f9=open('output.txt','r')
          content=f9.read()
         print(content)
         Transfer of dictionary to the output.txt was done successfully
         Allah: 5
         is: 2
         Omnipotent,: 11
         and: 3
         He: 2
         Above: 5
         anything: 8
         else!: 5
 In [ ]:
```

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