File Programming:

1) Write a file. Read the file and print its content. Read first two lines. Read first 5 characters.

demofile.txt
Hello! Welcome to demofile.txt
This file is for testing purposes.
Good Luck!

```
f = open("demofile.txt", "r")
print(f.read())
f.seek(0)
print(f.readline())
print(f.readline())
f.seek(0)
print(f.read(5))
f.seek(0)
for x in f:
  print(x)
f.close()
```

2) . Append content in the above mentioned file.
```
f = open("demofile2.txt", "a")
f.write("Now the file has more content!")
f.close()
#open and read the file after the appending:
f = open("demofile2.txt", "r")
print(f.read())
```

3) Open the above mentioned file and overwrite the content.

```
f = open("demofile3.txt", "w")
f.write("Woops! I have deleted the content!")
f.close()
#open and read the file after the appending:
f = open("demofile3.txt", "r")
print(f.read())
```

4) Check whether a file exists or not. Delete it.

```
    import os
if os.path.exists("demofile.txt"):
  os.remove("demofile.txt")
else:
  print("The file does not exist")
```

5) Print the words written in the first line of a file. Access each word using a loop.

file.text:

Hello How are you

```
with open("file.text", "r") as file:
    data = file.readlines()
    for line in data:
        word = line.split()
        print word
f.close()
```

6) . Count the number of lines in a file.

demo.txt

Hello! Welcome to demofile.txt

This file is for testing purposes.

Good Luck!

```
f=open("demo.txt",'r')
lines=len(f.readlines())
```

7) Count the number of words in a file.

```
words=0
with open("demo.txt",'r') as f:
    for line in f:
        w=line.split()
        words+=len(words)
max_len=len(max(w,key=len))
print(words)
```