11.FILES

- 1. Write a program to read text file
- 2. Write a program to write text to .txt file using InputStream
- 3. Write a program to read a file stream
- 4. Write a program to read a file stream supports random access
- 5. Write a program to read a file a just to a particular index using seek()
- 6. Write a program to check whether a file is having read access and write access permissions

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Untitled19.ipynb
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```
# 1st program...
a=str(input("Enter the name of the file with .txt extension:"))
file2=open(a,'r')
line=file2.readline()
while(line!=""):
    print(line)
    line=file2.readline()
file2.close()
```

Enter the name of the file with .txt extension:



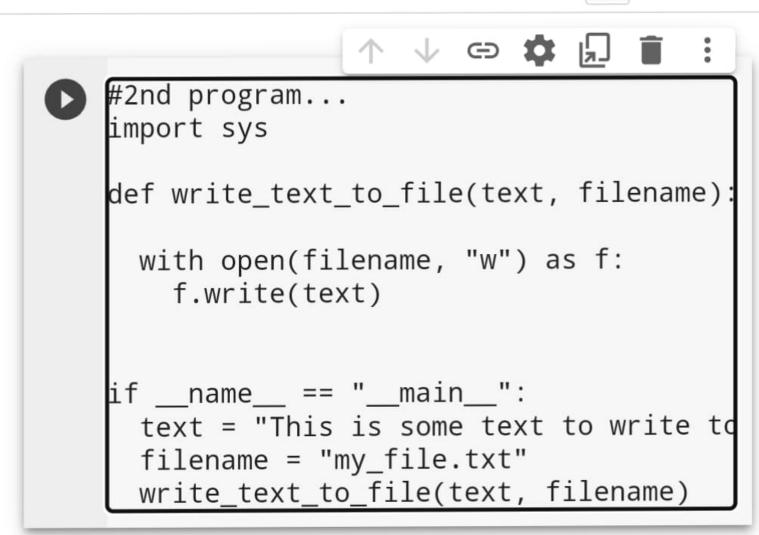


Untitled18.ipynb









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```
#3rd program...
def read_file_stream(filename):

with open(filename, "rb") as f:
    data = f.read()
    return data

if __name__ == "__main__":
    filename = "my_file.txt"
    data = read_file_stream(filename)
    print(data)

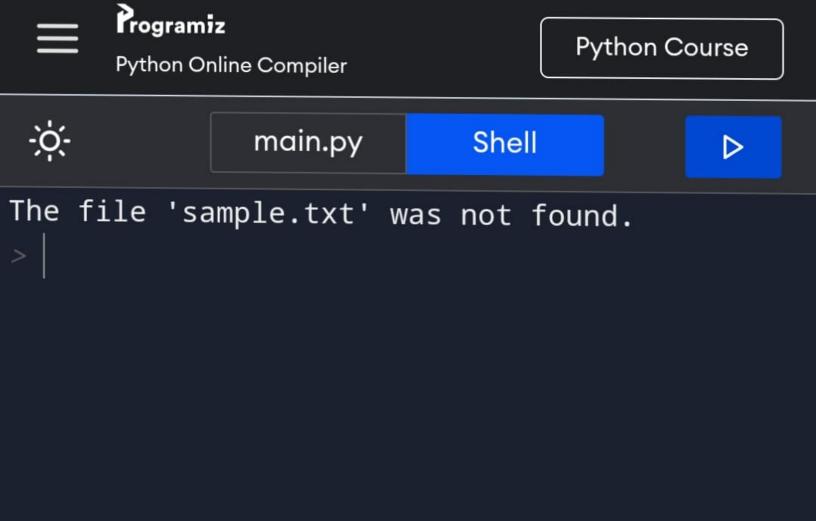
b'This is some text to write to a file.'
```

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```
# 4th program...
def read file stream random access(filename, position):
  """Reads the contents of a file stream at a specified position.
  Args:
    filename: The name of the file stream.
    position: The position in the file to read from.
  Returns:
    The contents of the file stream at the specified position.
  with open(filename, "rb") as f:
    f.seek(position)
    data = f.read()
  return data
if __name__ == "__main__":
  filename = "my_file.txt"
  position = 10
  data = read file stream random access(filename, position)
  print(data)
 b'me text to write to a file.'
```



```
1  # 5th program...
   file_path = "sample.txt"
2
3 try:
       with open(file_path, "rb") as file:
4
5
6
            index_to_seek = 10
            file.seek(index_to_seek)
8
            data = file.read()
9
             print(data.decode('utf-8'))
10 except FileNotFoundError:
11
        print(f"The file '{file_path}' was
            not found.")
12 except Exception as e:
13
        print(f"An error occurred: {str(e
            )}")
```



```
Untitled14.ipynb
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```
# 6th program...
import os
def check_file_permissions(file_path):
  ....
  Checks whether the file at the specified path has read and write permissions.
  Args:
   file path: The path to the file.
  Returns:
   True if the file has read and write permissions, False otherwise.
  ....
  is_readable = os.access(file_path, os.R OK)
  is_writable = os.access(file_path, os.W_OK)
  return is_readable and is_writable
if name == " main ":
  file path = "my file.txt"
  if check_file_permissions(file_path):
    print("The file has read and write permissions.")
  else:
    print("The file does not have read and write permissions.")
```

The file does not have read and write permissions.