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Batch: S22

File and Exception Handling

CODE:

try:

```
# Opening a file in default mode (read text)
with open("demofile.txt") as f:
    print(f.read())
```

```
# Opening a file in read text mode explicitly
with open("demofile.txt", "rt") as f:
    print(f.read())
```

```
# Reading only the first 5 characters of the file
with open("demofile.txt", "r") as f:
    print(f.read(5))
```

```
# Reading one line of the file
with open("demofile.txt", "r") as f:
    print(f.readline())
```

```
# Reading the first two lines of the file
with open("demofile.txt", "r") as f:
    print(f.readline())
    print(f.readline())
```

```
# Looping through the file line by line
with open("demofile.txt", "r") as f:
    for x in f:
        print(x)
```

```
# Writing to an existing file by appending
```

```
with open("demofile2.txt", "a") as f:
    f.write("Now the file has more content!")

# Reading the file after appending
with open("demofile2.txt", "r") as f:
    print(f.read())

# Overwriting the content of a file
with open("demofile3.txt", "w") as f:
    f.write("Woops! I have deleted the content!")

# Reading the file after overwriting
with open("demofile3.txt", "r") as f:
    print(f.read())

# Creating a new file using "x" mode
with open("myfile.txt", "x") as f:
    pass

# Creating a new file using "x" mode, again to
demonstrate error handling
try:
    with open("myfile.txt", "x") as f:
        pass
except FileExistsError:
    print("The file already exists.")

# Deleting a file
import os
file_to_delete = "demofile.txt"
if os.path.exists(file_to_delete):
    os.remove(file_to_delete)
    print(f"The file {file_to_delete} has been
deleted.")
else:
```

```
print("The file does not exist.")

# Deleting a file with error handling
file_to_delete = "demofile.txt"
try:
    os.remove(file_to_delete)
    print(f"The file {file_to_delete} has been
deleted.")
except FileNotFoundError:
    print("The file does not exist.")

# Deleting an entire folder
folder_to_delete = "myfolder"
if os.path.exists(folder_to_delete):
    os.rmdir(folder_to_delete)
    print(f"The folder {folder_to_delete} has been
deleted.")
else:
    print("The folder does not exist.")

except Exception as e:
    print("An error occurred:", e)
```