

PYTHON IN 10 VIDEOS

Assignment - 5

1. Write a function that copies the contents of a file named **source.txt** to a new file named **destination.txt**.

```
def copy_file(source, destination):  
    with open(source, 'r') as src:  
        with open(destination, 'w') as dest:  
            dest.write(src.read())  
  
# Test  
# copy_file('source.txt', 'destination.txt')
```

2. Write a function that reads the contents of a file named **document.txt** and returns the number of words in the file.

```
def count_words(filename):  
    with open(filename, 'r') as file:  
        text = file.read()  
        words = text.split()  
        return len(words)  
  
# Test  
# print(count_words('document.txt'))
```

3. Write a function that merges the contents of multiple files into a single file named **merged.txt**.

```
def merge_files(file_list, output_file):  
    with open(output_file, 'w') as outfile:  
        for fname in file_list:  
            with open(fname, 'r') as infile:  
                outfile.write(infile.read() + '\n')  
  
# Test  
# merge_files(['file1.txt', 'file2.txt'], 'merged.txt')
```

4. Write a function that reads a CSV file named `data.csv` and prints its contents as a list of dictionaries.

```
import csv

def read_csv_as_dicts(filename):
    with open(filename, 'r') as file:
        reader = csv.DictReader(file)
        return list(reader)

# Test
# print(read_csv_as_dicts('data.csv'))
```

5. Write a function that attempts to read a file named **protected.txt** and handles any permission errors gracefully by printing an error message.

```
def read_protected_file(filename):  
    try:  
        with open(filename, 'r') as file:  
            print(file.read())  
    except PermissionError as e:  
        print(f"Permission error: {e}")  
  
# Test  
# read_protected_file('protected.txt')
```