**Day-6 Evening Assessment**

**File Handling**

1.lines = ["Hello, world!", "Python is fun.", "File handling is powerful.\n"]  
with open("sample.txt", "w") as file:  
   file.writelines(line + "\n" for line in lines)  
  
2.n = 2  
with open("sample.txt", "r") as file:  
   for i in range(n):  
       line = file.readline()  
       if not line:  
           break  
       print(line.strip())  
  
3. with open("sample.txt", "a") as file:  
   file.write("This is an appended line.\n")  
  
4. import os  
file\_path = "sample.txt"  
if os.path.exists(file\_path):  
   print("File exists.")  
else:  
   print("File does not exist.")

5. with open("sample.txt", "r") as src, open("copy\_sample.txt", "w") as dest:  
   dest.write(src.read())  
  
6. with open("sample.txt", "r") as file:  
   lines = file.readlines()  
   total\_lines = len(lines)  
   total\_words = sum(len(line.split()) for line in lines)  
   total\_chars = sum(len(line) for line in lines)  
  
print("Lines:", total\_lines)  
print("Words:", total\_words)  
print("Characters:", total\_chars)  
  
7. with open("file1.txt", "r") as f1, open("file2.txt", "r") as f2, open("merged.txt", "w") as out:  
   out.write(f1.read())  
   out.write("\n")

   out.write(f2.read())

8. with open("sample.txt", "r") as file:  
   unique = set(file.readlines())  
  
for line in unique:  
   print(line.strip())  
  
9. keyword = "Python"  
with open("sample.txt", "r") as file:  
   for line in file:  
       if keyword in line:  
           print(line.strip())  
  
10. n = 2  
with open("sample.txt", "r") as file:  
   lines = file.readlines()  
   for line in lines[-n:]:  
       print(line.strip())  
  
11. from collections import Counter  
with open("sample.txt", "r") as file:  
   words = file.read().split()  
word\_freq = Counter(words)  
for word, count in word\_freq.items():  
   print(f"{word}: {count}")  
  
12. lines = ["Apple", "Banana", "Cherry"]  
with open("fruits.txt", "w") as file:  
   for line in lines:  
       file.write(line + "\n")