Practical 3

Name : Nouman Riyaz Sayyed;
Roll no : 232859

Program code :

```python
# Writing to the file
f = open("nouman.txt", 'w')
f.write("Hello there, My name is nouman!!")
f.close()

# Reading and printing the content
read = open("nouman.txt", 'r')
print(read.read())
read.close()

# Appending to the file
append = open("nouman.txt", "a")
append.write("\nBranch: IOT")
append.close()

# Reading and printing the updated content
r = open("nouman.txt", "r")
print(r.read())
r.close()

# Reading and writing using "r+" mode
readandwrite = open("nouman.txt", "r+")
rwcontent = readandwrite.read()
readandwrite.write("\nEnrollment: 232***\n" + rwcontent)
readandwrite.close()

# Reading and printing the final content
final_read = open("nouman.txt", "r")
print(final_read.read())
final_read.close()

# Write and read using "a+" mode
writeandread = open("nouman.txt", "a+")
writeandread.seek(0)  # Move the file pointer to the beginning
wrcontent = writeandread.read()
print("\nOriginal content:")
print(wrcontent)

# Write new content including college name
writeandread.write("\nCollege: Saboo Siddik\n")
```

```python
writeandread.seek(0)

# Read and print the updated content
content = writeandread.read()
print("\nAfter read and write operation:")
print(content)

# Close the file
writeandread.close()
```

Output:

```
Hello there, My name is nouman!!
Hello there, My name is nouman!!
Branch: IOT
Hello there, My name is nouman!!
Branch: IOT
Enrollment: 232***
Hello there, My name is nouman!!
Branch: IOT

Original content:
Hello there, My name is nouman!!
Branch: IOT
Enrollment: 232***
Hello there, My name is nouman!!
Branch: IOT

After read and write operation:
Hello there, My name is nouman!!
Branch: IOT
Enrollment: 232***
Hello there, My name is nouman!!
Branch: IOT
College: Saboo Siddik
```