Client.py

```
import xmlrpc.client

def main():
    # Connect to the server
    server = xmlrpc.client.ServerProxy("http://localhost:9000/")


    try:
          num = int(input("Enter an integer to calculate its factorial: "))
        # Call the remote function
        result = server.factorial(num)
        print(f"The factorial of {num} is: {result}")

    except Exception as e:
        print(f"Error: {e}")

if __name__ == "__main__":
    main()
```

Server.py

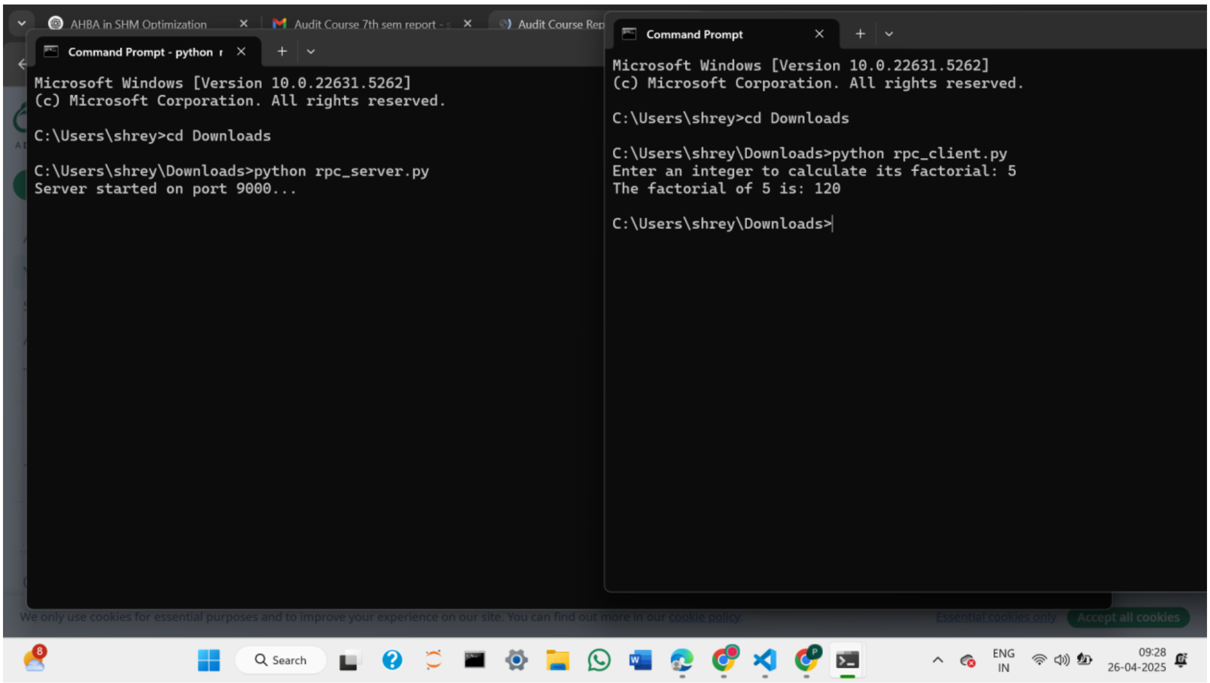
```
from xmlrpc.server import SimpleXMLRPCServer
import math

def calculate_factorial(n):
    if n < 0:
        return "Factorial is not defined for negative numbers."
    return math.factorial(n)

# Create and configure server
server = SimpleXMLRPCServer(("localhost", 9000), logRequests=True)
print("Server started on port 9000...")


# Register the factorial function
server.register_function(calculate_factorial, "factorial")


# Run the server
try:
    server.serve_forever()
except KeyboardInterrupt:
    print("\nServer shutting down.")
```



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```
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C:\Users\shrey\Downloads>python rpc_server.py
Server started on port 9000...
```

```
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C:\Users\shrey\Downloads>python rpc_client.py
Enter an integer to calculate its factorial: 5
The factorial of 5 is: 120

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```

```
# # Set up the server
# def start_server():
#     server = SimpleXMLRPCServer(("localhost", 8000))
#     print("Server is running on port 8000...")

#     # Register the function
#     server.register_function(calculate_factorial, "factorial")

#     # Keep the server running
#     server.serve_forever()

# if __name__ == "__main__":
#     start_server()


## factorial
# def factorial(n):

#     if n < 0:
#         return "Error: Factorial of a negative number is undefined."
#     elif n == 0 or n == 1:
#         return 1
#     else:
#         result = 1
#         for i in range(2, n + 1):
#             result *= i
#         return result
```