```
#server side
import xmlrpc.server
# Define the factorial function
def factorial(n):
     if n == 0:
           return 1
     else:
           return n * factorial(n-1)
# Create an XML-RPC server
server = xmlrpc.server.SimpleXMLRPCServer(("localhost", 8000))
# Register the factorial function with the server
server.register_function(factorial, "factorial")
# Start the server
print("Server is running on port 8000...")
server.serve_forever()
#client side
import xmlrpc.client
# Create an XML-RPC proxy to connect to the server
proxy = xmlrpc.client.ServerProxy("http://localhost:8000/")
# Prompt the user to enter an integer
```

```
num = int(input("Enter an integer: "))
# Call the remote factorial function on the server
result = proxy.factorial(num)
```

# Display the result
print(f"The factorial of {num} is {result}.")

```
Last login: Sum Apr 14 23:47:24 on ttys086 (base) omkarsomeshwarkondhalkar@omkars-MacBook-Air ~ % cd ~/Documents (base) omkarsomeshwarkondhalkar@omkars-MacBook-Air ~ % cd ~/Documents (base) omkarsomeshwarkondhalkar@omkars-MacBook-Air Documents % python server.py (base) omkarsomeshwarkondhalkar@omkars-MacBook-Air Documents % python client.py Enter an integer: 9
127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 127.0.0.1 - 144/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 124/Apr/2024 23:55:13| "POST / HTTP/1.1" 200 - 124/Apr/2024 23:55:13| "POST / HTTP/1.1" 20
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