

Program: -

```
import socket;
```

```
host = "127.0.0.1"
```

```
port = 8888
```

```
socket_client = socket.socket(socket.AF_INET,socket.SOCK_STREAM)
```

```
try:
```

```
    socket_client.connect((host, port))
```

```
    print("Server connection established....")
```

```
    msg = socket_client.recv(1024).decode()
```

```
    print(f"Message from server: {msg}")
```

```
    husky_username = "mayekar.n\n"
```

```
    first_msg = f"HELLO {husky_username}"
```

```
    socket_client.send(first_msg.encode())
```

```
    print(f"Message sent to server: {first_msg}")
```

```
while True:
```

```
    question = socket_client.recv(1024).decode().strip()
```

```
    print(f"Question from server: {question}")
```

```
    if(question.startswith("DONE")):
```

```
        question_parts = question.split()
```

```
        flag = question_parts[1]
```

```
        print(f"Flag parsed: {flag}")
```

```
        break
```

```
    question_parts = question.split()
```

```
    print(question_parts)
```

```
    if(len(question_parts) != 4 or question_parts[0] != "MATH"):
```

```
        print("Question is not in valid format!")
```

```
        break
```

```
    n1 = int(question_parts[1])
```

```
    op = question_parts[2]
```

```
n2 = int(question_parts[3])

if op == "+":
    ans = n1 + n2
elif op == "-":
    ans = n1 - n2
elif op == "*":
    ans = n1 * n2
elif op == "/":
    ans = n1 // n2
else:
    print("Unknown operator in the question!")
    break

ans_msg = f"ANSWER {ans}\n"
socket_client.send(ans_msg.encode())
print(f"Answer sent to server: {ans_msg}")

except socket.error() as e:
    print(f"Error: {e}")
finally:
    socket_client.close()
```

Flag: C7454489CEBD7A395FF245BC8DD3E281BAE8A865979CBEF4A849BFDFC0F587D9