

OSSP INDIDUAL ASSIGMENET
SYLABLLE OS
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System call

recv() is a system call in the Berkeley sockets API used to receive messages from a socket. It is typically used with TCP (stream-oriented) sockets to read incoming data.

The recv() system call is a key function used in network socket programming, specifically for receiving data from a connected socket (usually over TCP). It is part of the BSD sockets API, which is widely supported in Unix/Linux and other operating systems. When a program communicates over a network using sockets, recv() is used read incoming data from the socket's receive buffer into the application's memory.

```
Cpp code for recv()
#include <iostream>
#include <cstring>
#include <unistd.h>
#include <arpa/inet.h>
#include <sys/socket.h>

int main() {
    int sock = socket(AF_INET, SOCK_STREAM, 0);
    if (sock < 0) {
        std::cerr << "Socket creation failed\n";
        return 1;
    }

    sockaddr_in server_addr;
    server addr.sin family = AF_INET;</pre>
```

```
server_addr.sin_port = htons(8080); // Server port
server_addr.sin_addr.s_addr = inet_addr("127.0.0.1"); // Localhost
// Connect to the server
if (connect(sock, (struct sockaddr*)&server_addr, sizeof(server_addr)) < 0) {
  std::cerr << "Connection failed\n";
  close(sock);
  return 1;
}
char buffer[1024];
memset(buffer, 0, sizeof(buffer));
// Receive data from server
int bytes_received = recv(sock, buffer, sizeof(buffer) - 1, 0);
if (bytes_received < 0) {
  std::cerr << "recv() failed\n";
} else if (bytes received == 0) {
   std::cout << "Connection closed by server\n";
} else {
  buffer[bytes received] = '\0'; // Null-terminate
  std::cout << "Server says: " << buffer << "\n";
}
close(sock);
return 0;
```

}