ASSIGNMENT - 4

(Computer Networks Laboratory)

[Packet Tracer]

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Parity

```
#include <cstring>
#include <iostream>
using namespace std;
char evenParity(char msg[], int len) {
    int count = 0;
    for (int i = 0; i < len; i++) {
        if (msq[i] == '1') count++;
    }
    return (count % 2 == 0) ? '0' : '1';
}
char oddParity(char msg[], int len) {
    int count = 0;
    for (int i = 0; i < len; i++) {
        if (msg[i] == '1') count++;
    return (count % 2 != 0) ? '0' : '1';
}
int main(int argc, char const *argv[]) {
    char msg[128];
    cout << "Enter the message: ";
    cin >> msg;
    int len = strlen(msq);
```

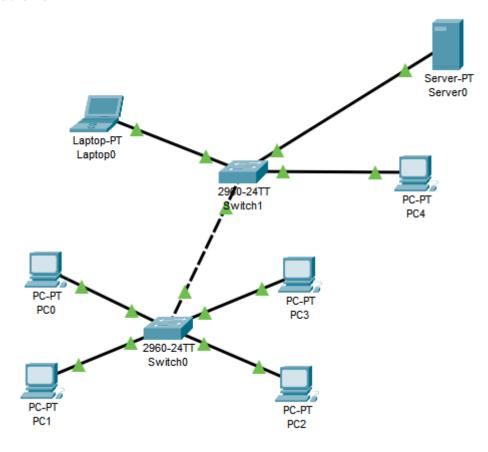
```
int ch;
    cout << "1. Even parity \n2. Odd parity\nChoice: ";</pre>
    cin >> ch;
    char parityBit;
    switch (ch) {
        case 1:
             parityBit = evenParity(msg, len);
        case 2:
             parityBit = oddParity(msg, len);
             break:
        default:
             exit(0);
    }
    msg[len] = parityBit;
    msg[len + 1] = '\0';
    cout << endl << "Parity Bit: " << parityBit << endl;</pre>
    cout << "Message with Parity: " << msg << endl;</pre>
    return 0;
}
```

Output

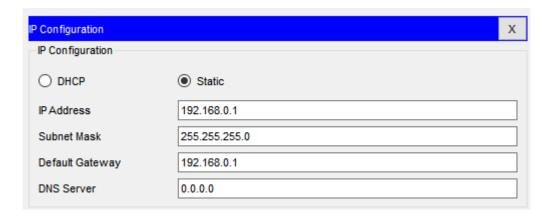
```
Kinjal → :Error-Detection / (main)
$> ./parity.exe
Enter the message: 111101101
1. Even parity
2. Odd parity
Choice: 1
Parity Bit: 1
Message with Parity: 1111011011
Kinjal → :Error-Detection / (main)
$> ./parity.exe
Enter the message: 111101101
1. Even parity
2. Odd parity
Choice: 2
Parity Bit: 0
Message with Parity: 1111011010
```

DHCP Server

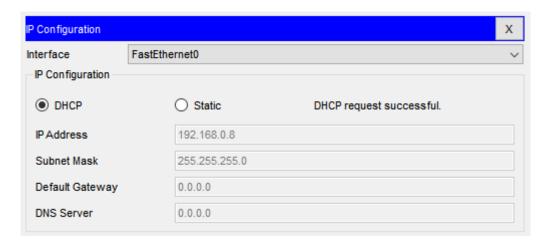
Connections



Server Configuration

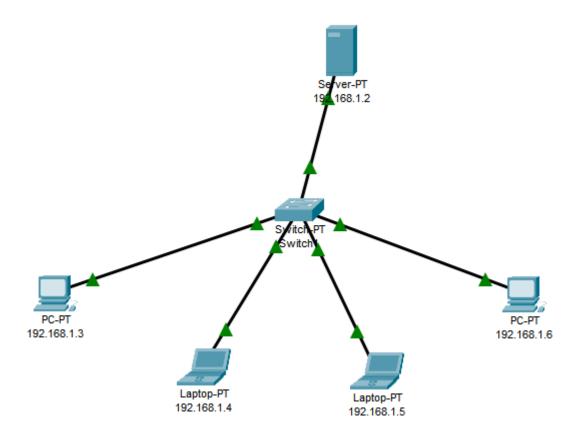


Client Configuration

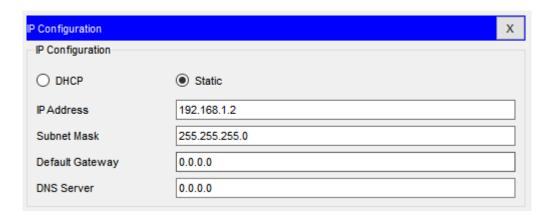


FTP Server

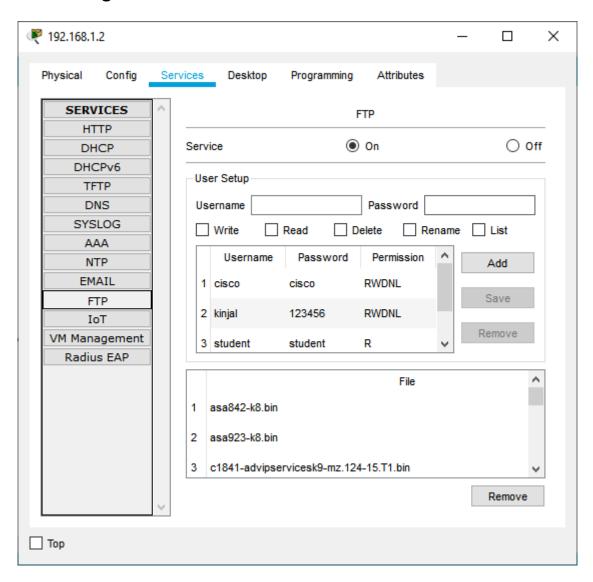
Connections



Server Configuration - IP



Server Configuration - FTP



Client accessing FTP

Packet Tracer PC Command Line 1.0 C:\>ftp 192.168.1.2
Trying to connect...192.168.1.2
Connected to 192.168.1.2
220- Welcome to PT Ftp server
Username:student
331- Username ok, need password
Password:
230- Logged in

(passive mode On) ftp>dir Listing /ftp directory from 192.168.1.2: %Error ftp://192.168.1.2/ (No such file or directory Or Permission denied) 550-Requested action not taken. permission denied). 221- Service closing control connection. C:\>ftp 192.168.1.2 Trying to connect...192.168.1.2 Connected to 192.168.1.2 220- Welcome to PT Ftp server Username:kinjal 331- Username ok, need password Password: 230- Logged in (passive mode On) ftp>dir Listing /ftp directory from 192.168.1.2: 0 : asa842-k8.bin 5571584 1 : asa923-k8.bin 30468096 2 : c1841-advipservicesk9-mz.124-15.T1.bin 33591768 3 : c1841-ipbase-mz.123-14.T7.bin 13832032 4 : c1841-ipbasek9-mz.124-12.bin 16599160 5 : c1900-universalk9-mz.SPA.155-3.M4a.bin 33591768 6 : c2600-advipservicesk9-mz.124-15.T1.bin 33591768 7 : c2600-i-mz.122-28.bin 5571584 8 : c2600-ipbasek9-mz.124-8.bin 13169700 9: c2800nm-advipservicesk9-mz.124-15.T1.bin 50938004 10 : c2800nm-advipservicesk9-mz.151-4.M4.bin 33591768 11 : c2800nm-ipbase-mz.123-14.T7.bin 5571584 12 : c2800nm-ipbasek9-mz.124-8.bin 15522644 13 : c2900-universalk9-mz.SPA.155-3.M4a.bin 33591768 14 : c2950-i6q4l2-mz.121-22.EA4.bin 3058048 15 : c2950-i6q4l2-mz.121-22.EA8.bin 3117390 16 : c2960-lanbase-mz.122-25.FX.bin 4414921 17 : c2960-lanbase-mz.122-25.SEE1.bin 4670455 18 : c2960-lanbasek9-mz.150-2.SE4.bin 4670455 19: c3560-advipservicesk9-mz.122-37.SE1.bin 8662192 20 : c3560-advipservicesk9-mz.122-46.SE.bin 10713279

21 : c800-universalk9-mz.SPA.152-4.M4.bin 33591768 22 : c800-universalk9-mz.SPA.154-3.M6a.bin 83029236

- 23 : cat3k_caa-universalk9.16.03.02.SPA.bin 505532849
- 24 : cgr1000-universalk9-mz.SPA.154-2.CG 159487552
- 25 : cgr1000-universalk9-mz.SPA.156-3.CG 184530138
- 26 : ir800-universalk9-bundle.SPA.156-3.M.bin 160968869
- 27 : ir800-universalk9-mz.SPA.155-3.M 61750062
- 28 : ir800-universalk9-mz.SPA.156-3.M 63753767
- 29 : ir800_yocto-1.7.2.tar 2877440
- 30 : ir800_yocto-1.7.2_python-2.7.3.tar 6912000
- 31 : pt1000-i-mz.122-28.bin 5571584
- 32 : pt3000-i6q4l2-mz.121-22.EA4.bin 3117390

ftp>