

Experiment No. 12

Study and Analyze the performance of HTTP, HTTPS and FTP protocol using Packet tracer Tool.

Program for HTTP:

```
#include <iostream>
#include <fstream>
#include <string>
#include <string.h>
using namespace std;
int main()
{
    string line;
    string array[]={ "Host","User-Agent","Accept-Language","AcceptEncoding","Accept-
    Charset","Connection","Referer","ContentType","Content-Length"};
    ifstream fin;
    fin.open("http-header.txt");
    size_t pos;
    int f=0;
    while(getline(fin,line))
    {
        string token;
        if((pos=line.find(array[0]))!=string::npos && f==0)
        {
            token=line.substr(pos,string::npos);
            cout<<token<<endl;
            f=1;
            continue;
        }
        if((pos=line.find(array[1]))!=string::npos && f==1 )
        {
            token=line.substr(pos,string::npos);
            cout<<token<<endl;
            f=2;
            continue;
        }
        if((pos=line.find(array[2]))!=string::npos && f==2)
        {
            token=line.substr(pos,string::npos);
            cout<<token<<endl;
            f=4;
            continue;
        }
        if((pos=line.find(array[3]))!=string::npos &&f==4)
        {
            token=line.substr(pos,string::npos);
            cout<<token<<endl;
            f=5;
            continue;
        }
        if((pos=line.find(array[4]))!=string::npos &&f==5)
        {
            token=line.substr(pos,string::npos);
            cout<<token<<endl;
```

```

f=6;
continue;
}
if((pos=line.find(array[5]))!=string::npos &&f==6)
{
    token=line.substr(pos,string::npos);
    cout<<token<<endl;
    f=7;
    continue;

}
if((pos=line.find(array[6]))!=string::npos && f==7)
{
    token=line.substr(pos,string::npos);
    cout<<token<<endl;
    f=8;
    continue;
}
if((pos=line.find(array[7]))!=string::npos &&f==8)
{
    token=line.substr(pos,string::npos);
    cout<<token<<endl;
    f=9;
    continue;
}
if((pos=line.find(array[8]))!=string::npos && f==9)
{
    token=line.substr(pos,string::npos);
    cout<<token<<endl;
    f=10;
    continue;
}
}
return 0;
}

```

Output:

```

Host: net.tutsplus.com
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.5)
Gecko/20091102 Firefox/3.5.5 (.NET CLR 3.5.30729)
Accept-Language: en-us,en;q=0.5
Accept-Encoding: gzip,deflate
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7
Connection: keep-alive
Referrer: http://localhost/test.php
Content-Type: application/x-www-form-urlencoded
Content-Length: 43

```