NES416 Network Programming

Assignment #3
Sample Runs Snapshots

Name: *Ayoub Ahmad Abedalhameed*
SN: *124052*

```
pinkpanther@dell:~/Desktop/ASS3$ gcc OptCheck.c -o CheckOption
pinkpanther@dell:~/Desktop/ASS3$
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```
pinkpanther@dell:~/Desktop/ASS3$ ./OptCheck

********
OS:Linux
Release: 5.7.0-kali1-amd64
Version: #1 SMP Debian 5.7.6-1kali2 (2020-07-01)
********
```

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```
********Checking Default Options********

->1: SO_BROADCAST: default = off
->2: SO_DEBUG: default = off
->3: SO_DONTROUTE: default = off
->4: SO_ERROR: default = 0
->5: SO_KEEPALIVE: default = off
->6: SO_LINGER: default = l_onoff = 0, l_linger = 0
->7: SO_OOBINLINE: default = off
->8: SO_RCVBUF: default = 131072
->9: SO_SNDBUF: default = 16384
->10: SO_RCVLOWAT: default = 1
->11: SO_SNDLOWAT: default = 1
->12: SO_RCVTIMEO: default = 0 sec, 0 usec
->13: SO_SNDTIMEO: default = 0 sec, 0 usec
->14: SO_REUSEADDR: default = off
->15: SO_REUSEPORT: default = off
->16: SO_TYPE: default = 1
->17: SO_USELOOPBACK: (undefined)
->18: IP_TOS: default = 0
```

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->18: IP_TOS: default = 0
->19: IP_TTL: default = 64
->20: IP_HDRINCL: default = 0
->21: IP_RECVIF: (undefined)
->22: IP_RECVDSTADDR: (undefined)
->23: IP_MULTICAST_IF: default = 0.0.0.0
->24: IP_MULTICAST_TTL: default = 1
->25: IP_MULTICAST_LOOP: default = 1
getsockopt error:: Protocol not available
->26: IPV6_CHECKSUM: Continue to next option ...
->27: IPV6_DONTFRAG: default = off
->28: IPV6_RECVDSTOPTS: default = off
->29: IPV6_RECVHOPLIMIT: default = off
->30: IPV6_RECVHOPOPTS: default = off
->31: IPV6_RECVPATHMTU: default = off
->32: IPV6_RECVRTHDR : default = off
->33: IPV6_RECVPKTINFO : default = off
->34: IPV6_V6ONLY : default = off
->35: IPV6_MULTICAST_HOPS : default = on
->36: IPV6_UNICAST_HOPS: default = 64
->37: IPV6_V6ONLY: default = off
->38: TCP_MAXSEG: (undefined)
```

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->37: IPV6_V6ONLY: default = off
->38: TCP_MAXSEG: (undefined)
->39: TCP_NODELAY: (undefined)
->40: SCTP_AUTOCLOSE: (undefined)
->41: SCTP_MAXBURST: (undefined)
->42: SCTP_MAXSEG: (undefined)
->43: SCTP_NODELAY: (undefined)

        ******End of Options*****
```

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Please Enter New RCVLOWAT, SendLOWAT to change default values OR ENTER -1 to can
cel
50 150
Error While Setting New SO_SNDLOWAT: : Protocol not available
SO_RCVBUF Value is: (50)
SendLWM value has not changed, You cant change Low_WaterMark for stream protocol
New SendLWM Value is: (1)

        *********Execution ends********* ..

pinkpanther@dell:~/Desktop/ASS3$
```