**IPV4 or IPV6 address Program.**

#include <sys/types.h>  
#include <stdio.h>  
#include <string.h>  
#include <sys/socket.h>  
#include <netdb.h>

int main(int argc, char \*argv[])  
{  
    struct addrinfo hint, \*res = NULL;  
    int ret;  
  
    memset(&hint, '\0', sizeof hint);  
  
    hint.ai\_family = PF\_UNSPEC;  
    hint.ai\_flags = AI\_NUMERICHOST;  
  
    ret = getaddrinfo(argv[1], NULL, &hint, &res);  
    if (ret) {  
        puts("Invalid address");  
        puts(gai\_strerror(ret));  
        return 1;  
    }  
    if(res->ai\_family == AF\_INET) {  
        printf("%s is an ipv4 address\n",argv[1]);  
    } else if (res->ai\_family == AF\_INET6) {  
        printf("%s is an ipv6 address\n",argv[1]);  
    } else {  
        printf("%s is an is unknown address format %d\n",argv[1],res->ai\_family);  
    }  
  
   freeaddrinfo(res);  
   return 0;  
}  
  
$ ./a.out 127.0.0.1  
127.0.0.1 is an ipv4 address  
$ ./a.out ff01::01  
ff01::01 is an ipv6 address