Name: Nithin Patel N D

Usn: 1NT23IS145

LB-2

Q : Write a C program to check and display the _POSIX_VERSION constant of the system on which it is run, and also print the POSIX de#ned con#guration options supported on any given system

CODE:

```c
#include<unistd.h>
#include<stdio.h>
int main () {

printf("_POSIX_VERSION constant: %ld\n", _POSIX_VERSION);

#ifdef _POSIX_ASYNCHRONOUS_IO
printf("POSIX Asynchronous I/O supported\n");
#endif
#ifdef _POSIX_CLOCK_SELECTION
printf("clock selection is supported\n");
#endif
#ifdef _POSIX_IPV6
printf("ipv6 is available\n");
#endif
#ifdef _POSIX_MEMLOCK
printf("memory lock is suported\n");
#endif
#ifdef _POSIX_CHOWN_RESTRICTED
printf("chown function is restricted");
#endif
#ifdef _POSIX_MESSAGE_PASSING
printf("message passing is supported\n");
#endif
#ifdef _POSIX_SPIN_LOCKS
```

```c
    printf("spin locks are available.\n");
#endif
#ifdef _POSIX_THREADS
    printf("threads are supported.\n");
#endif
#ifdef _POSIX_TIMERS
    printf("timers are supported.\n");
#endif
#ifdef _POSIX_TYPED_MEMORY_OBJECTS
    printf("typed memory objects are supported.\n");
#endif
    return 0;
}
```

OUTPUT :

_POSIX_VERSION constant: 200809

POSIX Asynchronous I/O supported

clock selection is supported

ipv6 is available

memory lock is suported

chown function is restrictedmessage passing is supported

spin locks are available.

threads are supported.

timers are supported.

typed memory objects are supported.