

```
//LAB TERMWORK-1
```

```
#define _POSIX_SOURCE
```

```
#define _POSIX_C_SOURCE 199309L
```

```
#include <stdio.h>
```

```
#include <iostream>
```

```
#include <unistd.h>
```

```
using namespace std ;
```

```
int main()
```

```
{
```

```
int res;
```

```
    cout<< "COMPILE TIME LIMIT VALUES"<<endl;
```

```
    #ifdef _POSIX_CLK_TCK
```

```
        cout<<"No. of clock ticks per second:"<< _POSIX_CLK_TCK<<endl;
```

```
    #else
```

```
        cout<<"_POSIX_CLK_TCK MACRO NOT DEFINED"<<endl;
```

```
    #endif
```

```
    #ifdef _POSIX_CHILD_MAX
```

```
        cout<<"No. of child process created:"<< _POSIX_CHILD_MAX<<endl;
```

```
    #else
```

```
        cout<<"_POSIX_CHILD_MAX MACRO NOT DEFINED"<<endl;
```

```
    #endif
```

```
    #ifdef _POSIX_PATH_MAX
```

```
        cout<<"Maximum path name:"<< _POSIX_PATH_MAX<<endl;
```

```
    #else
```

```
        cout<<"_POSIX_PATH_MAX MACRO NOT DEFINED"<<endl;
```

```
    #endif
```

```
    #ifdef _POSIX_NAME_MAX
```

```
        cout<<"Maximum no. of characters in a file name:"<< _POSIX_NAME_MAX<<endl;
```

```

    #else

        cout<<"_POSIX_NAME_MAX MACRO NOT
DEFINED"<<endl; #endif

    #ifdef _POSIX_OPEN_MAX

        cout<<"Maximum number of files simultaneously
opened:"<<_POSIX_OPEN_MAX<<endl;

    #else

        cout<<"_POSIX_OPEN_MAX MACRO NOT
DEFINED"<<endl; #endif

        cout<< "RUN TIME LIMIT VALUES"<<endl;

if ((res=sysconf(_SC_CLK_TCK))== -1)
perror("sysconf");
else
cout << "NUMBER OF CLOCK TICKS IS : " << res << endl;

if ((res=sysconf(_SC_CHILD_MAX))== -1)
perror("pathconf");
else
cout << "MAXIMUM NUMBER OF CHILD PROCESSES : " << res << endl;

if ((res=pathconf("/",_PC_PATH_MAX))== -1)
perror("pathconf");
else
cout << "MAXIMUM LENGTH IN BYTES OF A PATH: " << res << endl;

if ((res=pathconf("/",_PC_NAME_MAX))== -1)
perror("pathconf");

```

```
else
cout << "MAXIMUM LENGTH IN BYTES IN A FILE NAME: " << res << endl;

if ((res=sysconf(_SC_OPEN_MAX))== -1)
perror("sysconf");

else
cout << "MAXIMUM NUMBER OF OPEN FILES / PROCESSES IS : " << res << endl;

return 0;

}
```