ASSIGNMENT NO 4

PROBLEM STATEMENT:

Write a switch case driven X86/64 ALP to perform 64-bit hexadecimal arithmetic operations (+,-,*, /) using suitable macros. Define procedure for each operation.

SOURCE CODE:

```
section .data
        menumsg db 10,'****** Menu ******',
        db 10,'1: Addition'
        db 10,'2: Subtraction'
        db 10,'3: Multiplication'
        db 10,'4: Division'
        db 10,10,'Enter your choice:: '

        menumsg_len: equ $-menumsg

        addmsg db 10,'Welcome to additon',10
        addmsg_len equ $-addmsg

        submsg db 10,'Welcome to subtraction',10
        submsg_len equ $-submsg

        mulmsg db 10,'Welcome to Multiplication',10
        mulmsg_len equ $-mulmsg
```

```
divmsg db 10,'Welcome to Division',10
divmsg_len equ $-divmsg

wrchmsg db 10,10,'You Entered a Wrong Choice....!',10
wrchmsg_len equ $-wrchmsg

no1 dq 08h
no2 dq 02h

nummsg db 10
result dq 0

resmsg db 10,'Result is:'
resmsg_len equ $-resmsg

qmsg db 10,'Quotient::'
qmsg_len equ $-qmsg

rmsg db 10,'Remainder::'
rmsg_len equ $-rmsg

nwmsg db 10
        resh dq 0
        resl dq 0
section .bss
        choice resb 2
```