```
com@dell:~/Desktop/Pracs$ nasm -f elf64 Assgn1.asm
com@dell:~/Desktop/Pracs$ ld -o Assgn1 Assgn1.o
com@dell:~/Desktop/Pracs$ ./Assgn1
Enter the numbers
3 7
Display the numbers
3 7
```

```
com@dell:~/Desktop/Pracs$ nasm -f elf64 Assgn2.asm
com@dell:~/Desktop/Pracs$ ld -o Assgn2 Assgn2.o
com@dell:~/Desktop/Pracs$ ./Assgn2
Enter the string:
Hello World
Length of the string is:
000000000000000Bcom@dell:~/Desktop/Pracs$
```

```
com@dell:~/Desktop/Pracs$ nasm -f elf64 Assgn3.asm
com@dell:~/Desktop/Pracs$ ld -o Assgn3 Assgn3.o
com@dell:~/Desktop/Pracs$ ./Assgn3
Array Elements Are::
0fa10001h
0b200002h
0fff0003h
0d400004h
0ffffffh
Largest Number is::000000000FFFFFFF
```

```
com@dell:~/Desktop/Pracs$ nasm -f elf64 Assgn4.asm
com@dell:~/Desktop/Pracs$ ld -o Assgn4 Assgn4.o
com@dell:~/Desktop/Pracs$ ./Assgn4

**********MENU**********
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit
Enter your Choice: 1

Addition: 0000000000000005
**********MENU**********
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit
Enter your Choice: 2

Substraction: 0000000000000001
```

```
**********MENU**********
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit
Enter your Choice: 3

Multiplication: 0000000000000006
**********MENU**********
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit
Enter your Choice: 4

Division: 0000000000000001
**********MENU**********
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit
Enter your Choice: 5
com@dell:~/Desktop/Pracs$
```

```
com@dell:~/Desktop/Pracs$ nasm -f elf64 Assgn5.asm
com@dell:~/Desktop/Pracs$ ld -o Assgn5 Assgn5.o
com@dell:~/Desktop/Pracs$ ./Assgn5

Welcome to program which count +ve and -ve numbers in an array
Count of +ve numbers: 04
Count of -ve numbers: 03
```

```
com@dell:~/Desktop/Pracs$ nasm -f elf64 Assgn6.asm
com@dell:~/Desktop/Pracs$ ld -o Assgn6 Assgn6.o
com@dell:~/Desktop/Pracs$ ./Assgn6

-----------Menu----------
1. Hex to BCD
2. BCD to Hex
3. Exit

Enter your choice: 1

Hex to BCD
Enter 4-digit Hex number: 8A9F

Equivalent BCD number is: 35487
-----------Menu----------
1. Hex to BCD
2. BCD to Hex
3. Exit

Enter your choice: 2

BCD to Hex
Enter 5-digit BCD number: 35487

Equivalent BCD number is: 8A9F
```

```
com@dell:~/Desktop/Pracs$ nasm -f elf64 Assgn7.asm
com@dell:~/Desktop/Pracs$ ld -o Assgn7 Assgn7.o
com@dell:~/Desktop/Pracs$ ./Assgn7

Processor is in Protected Mode...
GDTR (Global Descriptor Table Register) : 00001000:007F
IDTR (Interrupt Descriptor Table Register) : 00000000:0FFF
LDTR (Local Descriptor Table Register) : 0000
TR (Task Register) : 0040
MSW (Machine Status Word) : 0033
```

```
com@dell:~/Desktop/Pracs$ nasm -f elf64 Assgn8.asm
com@dell:~/Desktop/Pracs$ ld -o Assgn8 Assgn8.o
com@dell:~/Desktop/Pracs$ ./Assgn8

Block contents before transfer
Source block contents::01 02 03 04 05
Destination block contents::00 00 00 00 00

##### Menu for Non-overlapped Block Transfer #####

1.Block Transfer without using string instructions
2.Block Transfer with using string instructions
3.Exit
1

Block contents after transfer
Source block contents::01 02 03 04 05
Destination block contents::01 02 03 04 05

com@dell:~/Desktop/Pracs$ nasm -f elf64 Assgn8.asm
com@dell:~/Desktop/Pracs$ ld -o Assgn8 Assgn8.o
com@dell:~/Desktop/Pracs$ ./Assgn8

Block contents before transfer
Source block contents::01 02 03 04 05
Destination block contents::00 00 00 00 00

##### Menu for Non-overlapped Block Transfer #####

1.Block Transfer without using string instructions
2.Block Transfer with using string instructions
3.Exit
2

Block contents after transfer
Source block contents::01 02 03 04 05
Destination block contents::01 02 03 04 05
```

```
com@dell:~/Desktop/Pracs$ nasm -f elf64 Assgn9.asm
com@dell:~/Desktop/Pracs$ ld -o Assgn9 Assgn9.o
com@dell:~/Desktop/Pracs$ ./Assgn9

Block contents before transfer
Source block contents::01 02 03 04 05
Destination block contents::00 00 00 00 00

##### Menu for Overlapped Block Transfer #####

1.Block Transfer without using string instructions
2.Block Transfer with using string instructions
3.Exit
1

Block contents after transfer
Source block contents::01 02 03 04 05
Destination block contents::04 05 04 05 04

com@dell:~/Desktop/Pracs$ nasm -f elf64 Assgn9.asm
com@dell:~/Desktop/Pracs$ ld -o Assgn9 Assgn9.o
com@dell:~/Desktop/Pracs$ ./Assgn9

Block contents before transfer
Source block contents::01 02 03 04 05
Destination block contents::00 00 00 00 00

##### Menu for Overlapped Block Transfer #####

1.Block Transfer without using string instructions
2.Block Transfer with using string instructions
3.Exit
2

Block contents after transfer
Source block contents::01 02 03 04 05
Destination block contents::04 05 04 05 04
```

```
com@dell:~/Desktop/Pracs$ nasm -f elf64 Assgn10.asm
com@dell:~/Desktop/Pracs$ ld -o Assgn10 Assgn10.o
com@dell:~/Desktop/Pracs$ ./Assgn10

Enter your Choice:
1.Successive Addition
2.Add and Shift method
3.Exit
1

Enter two digit Number::10

Enter two digit Number::10

Multiplication of elements is::0100
Enter your Choice:
1.Successive Addition
2.Add and Shift method
3.Exit
2

Enter two digit Number::45

Enter two digit Number::56

Multiplication of elements is::172E
```