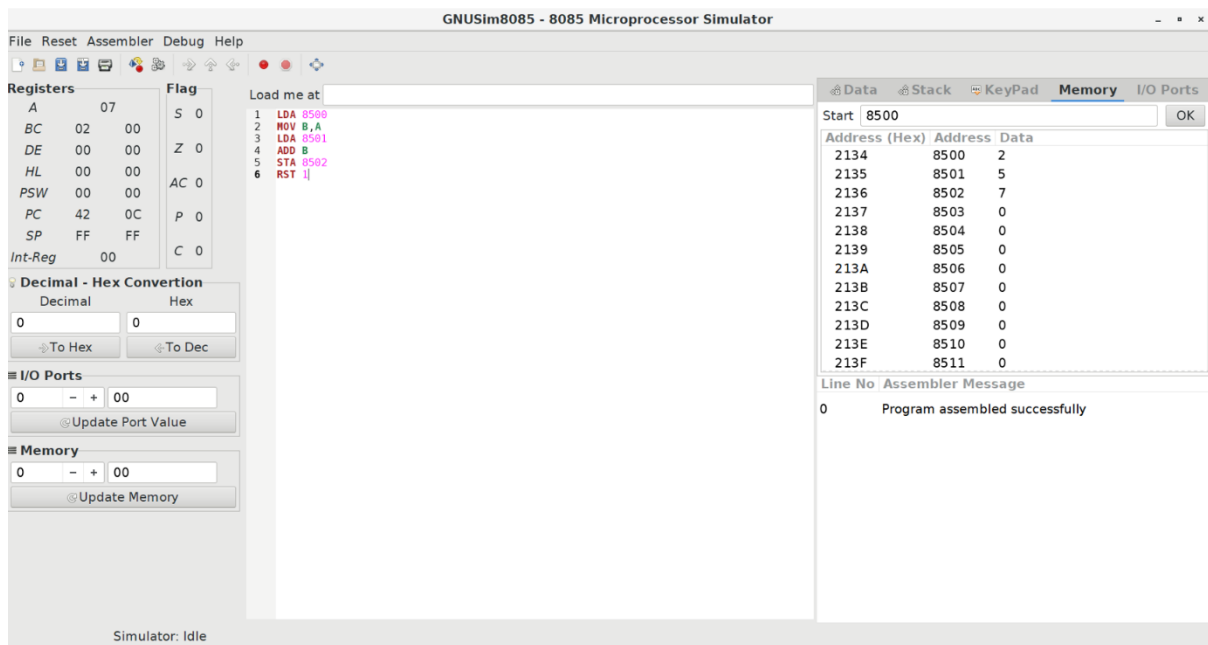
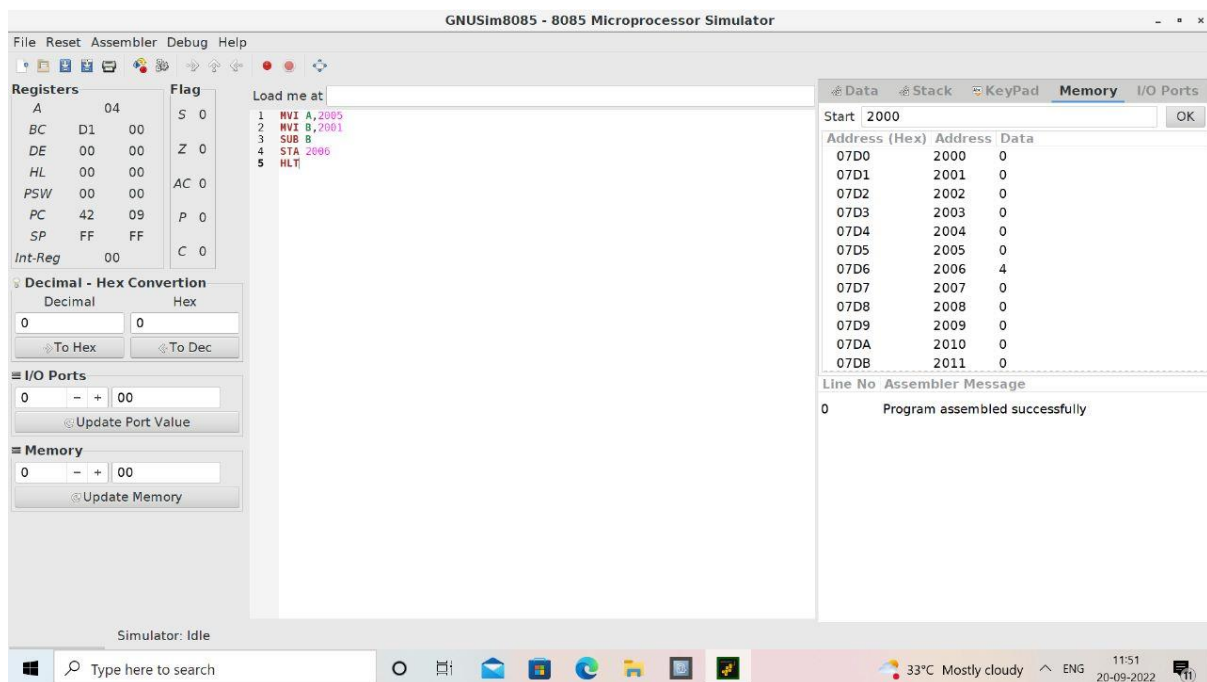


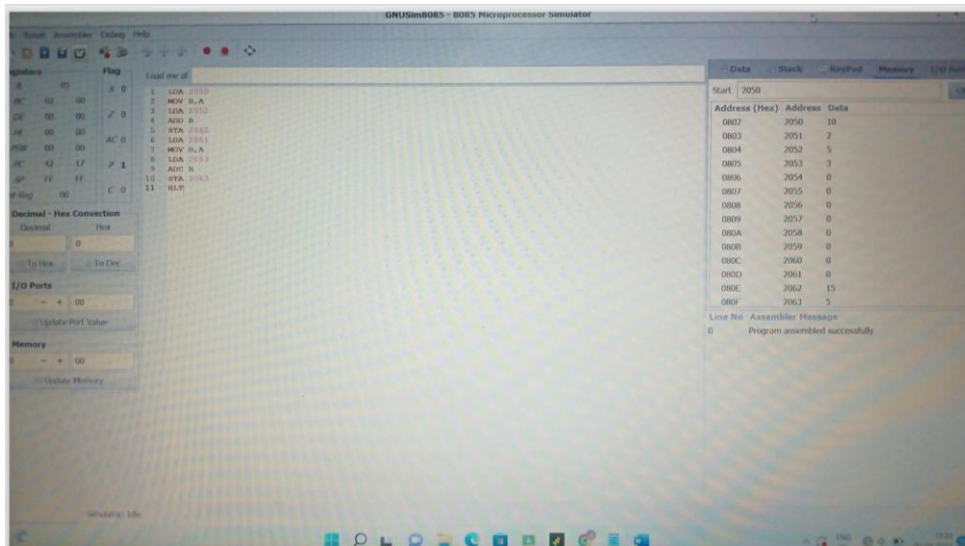
Experiment 1



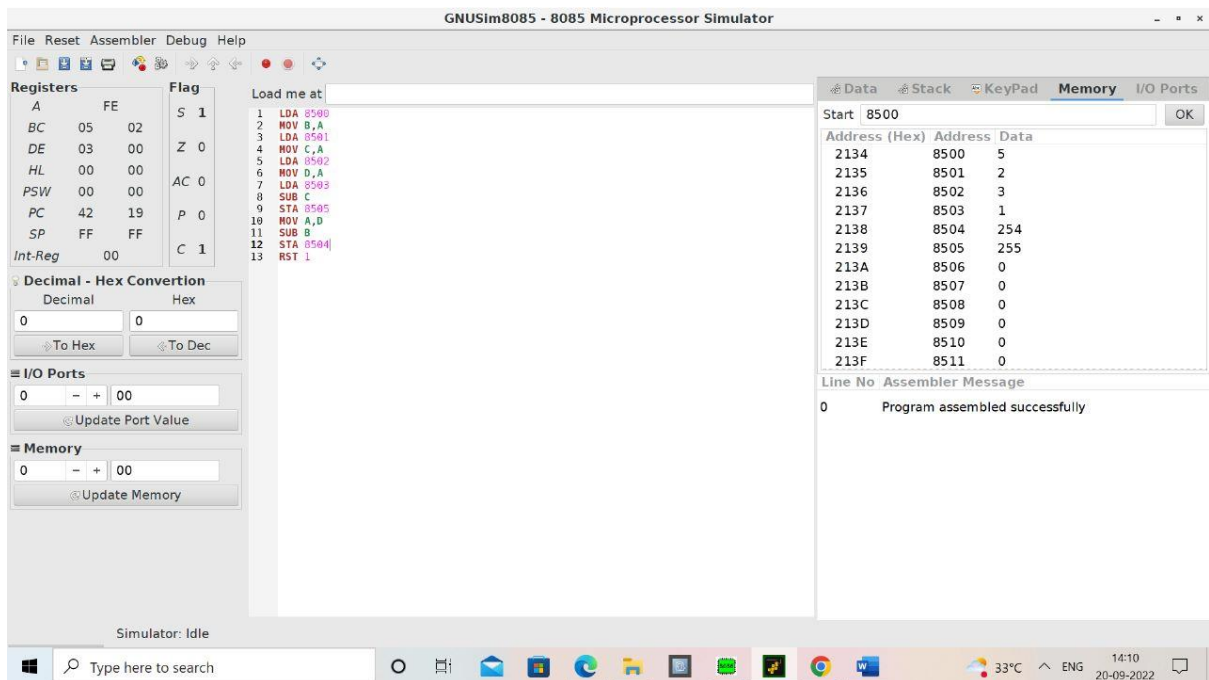
Experiment 2



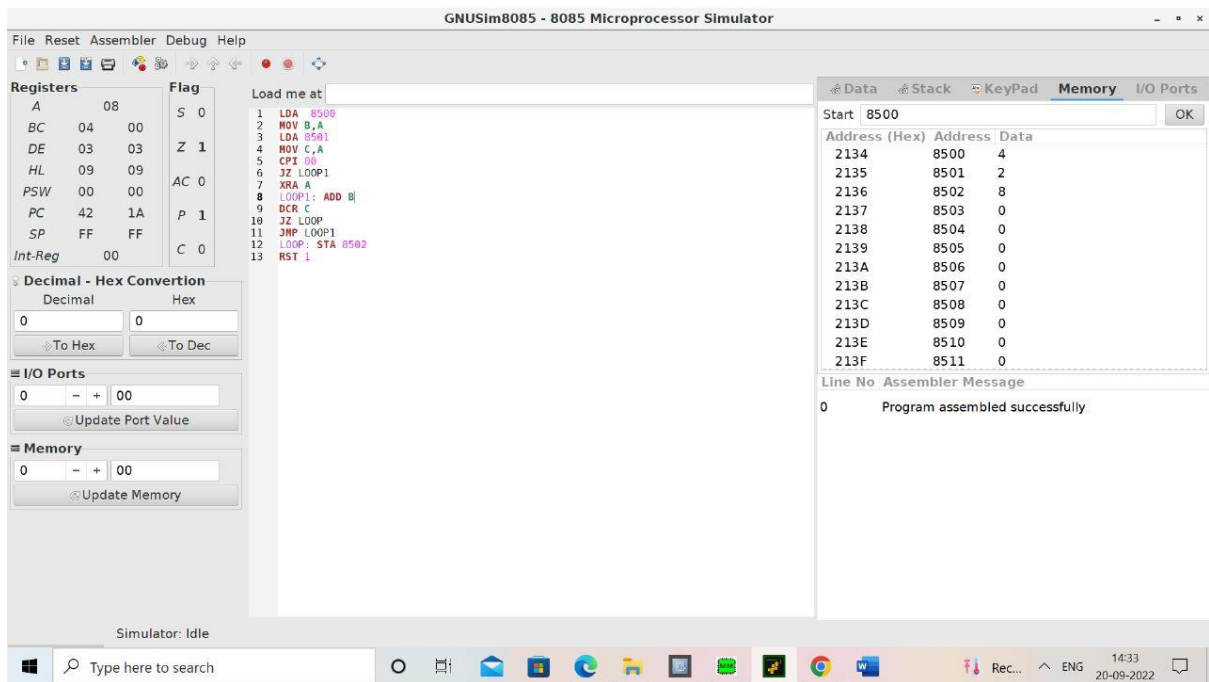
Experiment 3



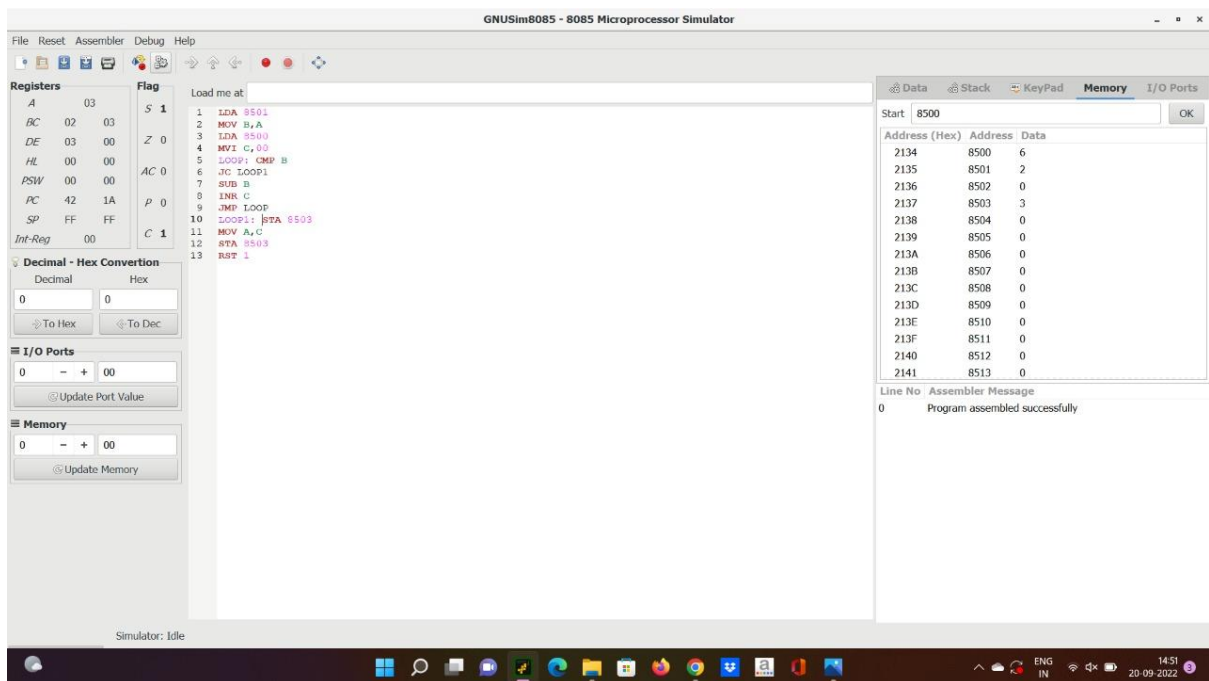
Experiment 4



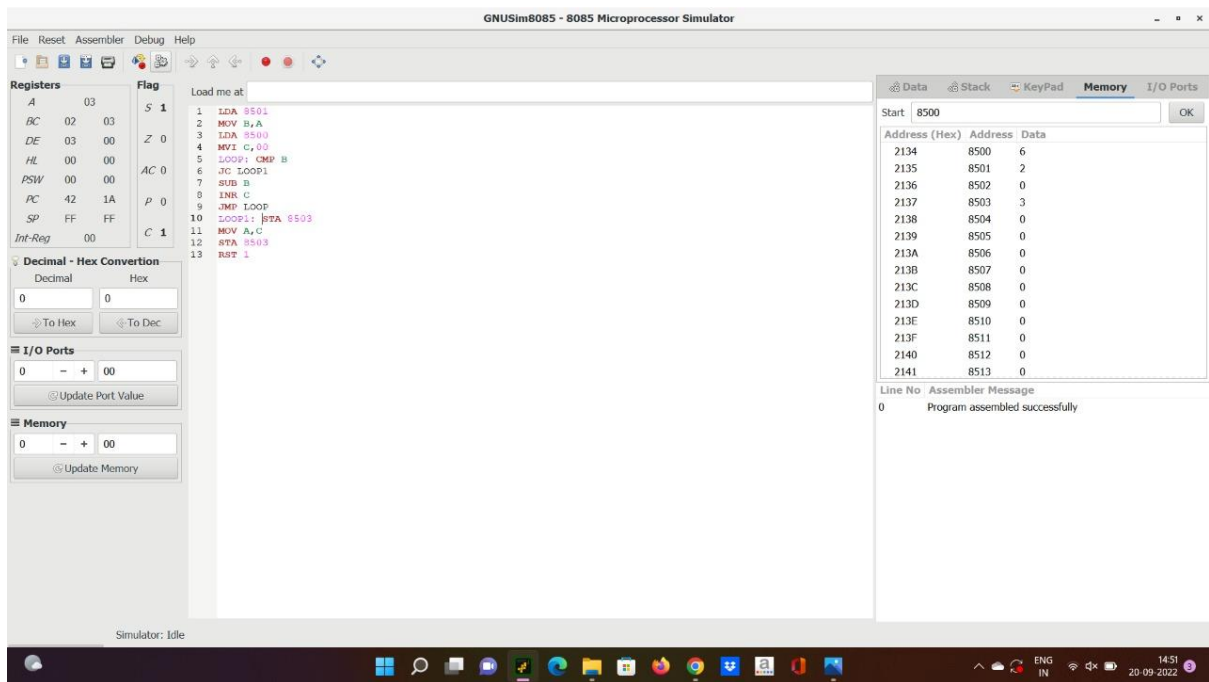
Experiment 5



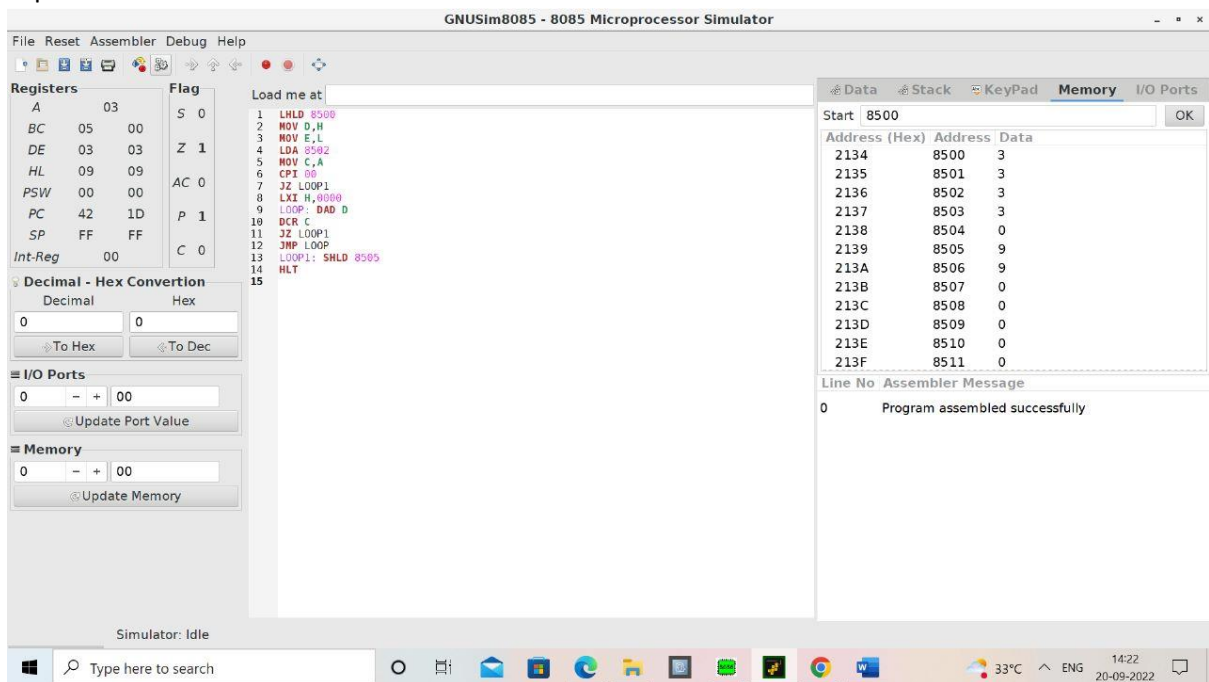
Experiment 5



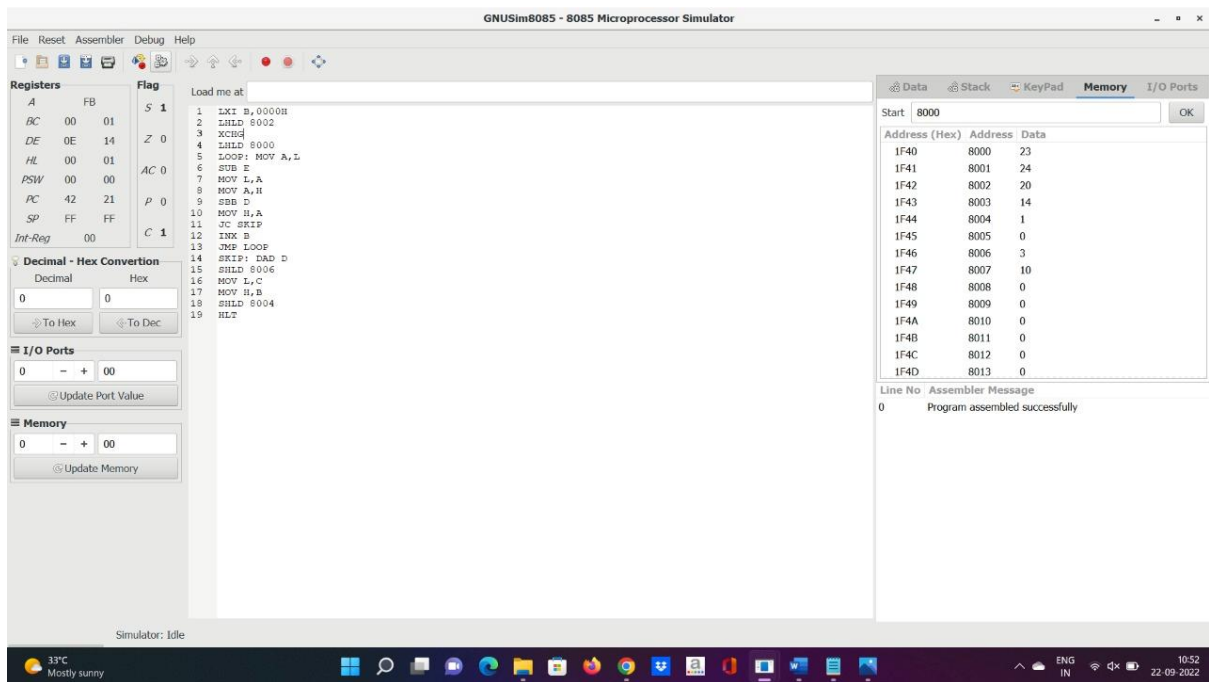
Experiment 6



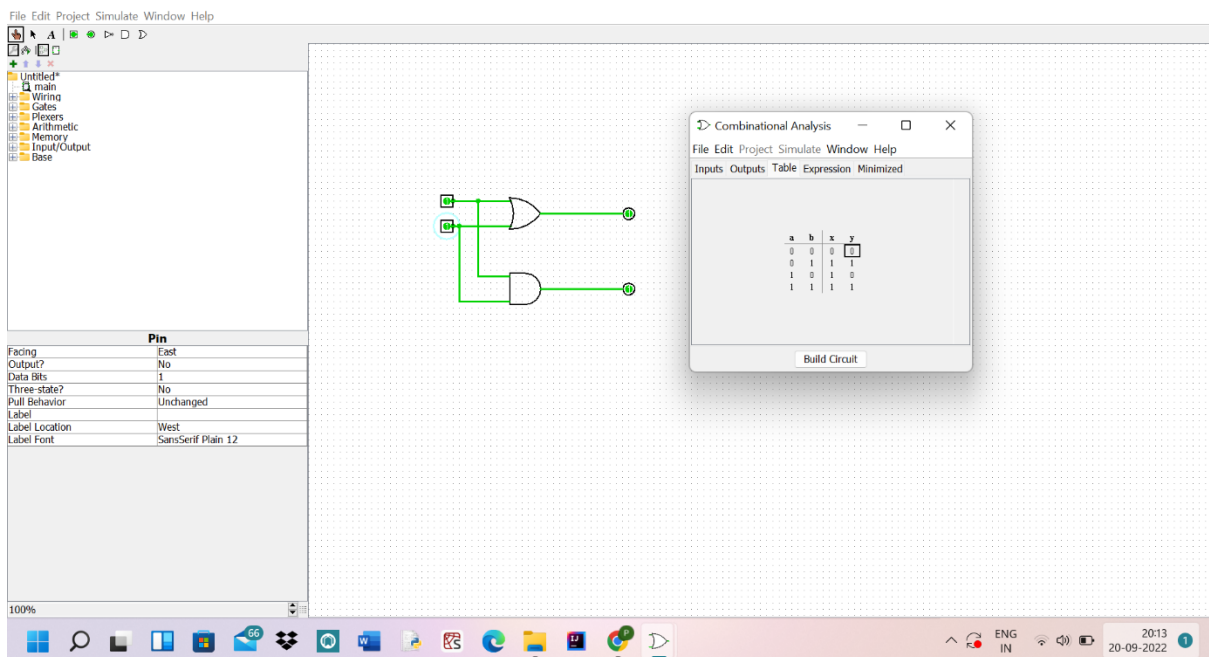
Experiment 7



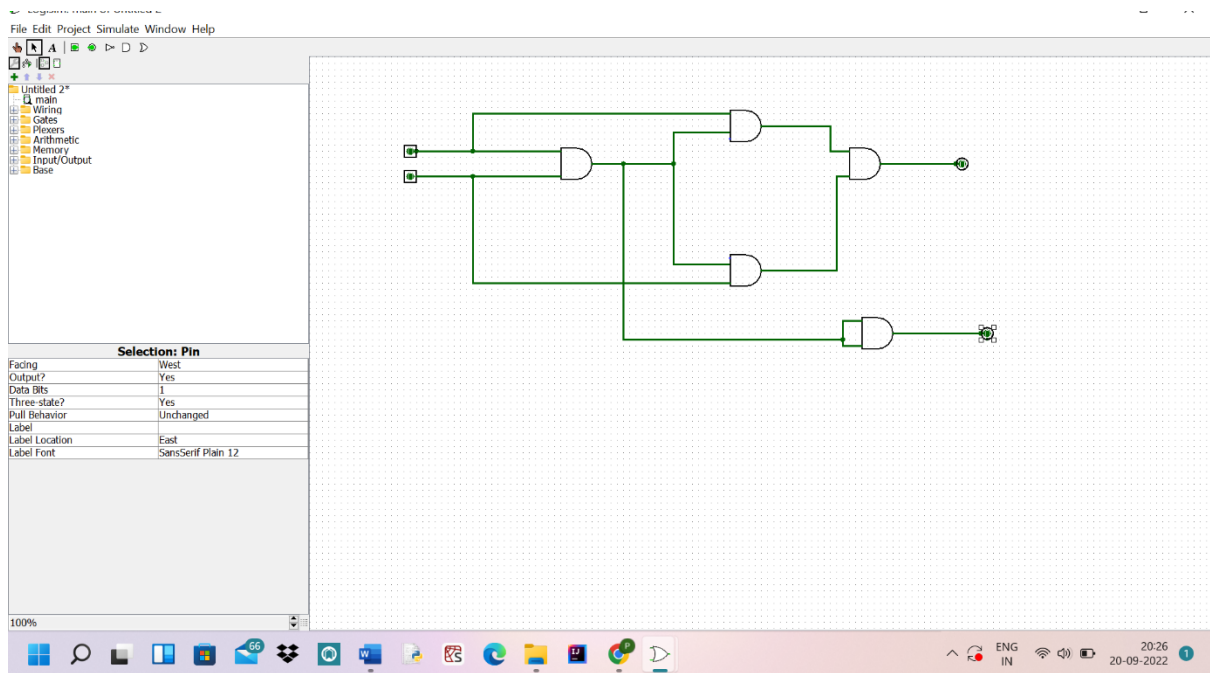
Experiment 8:



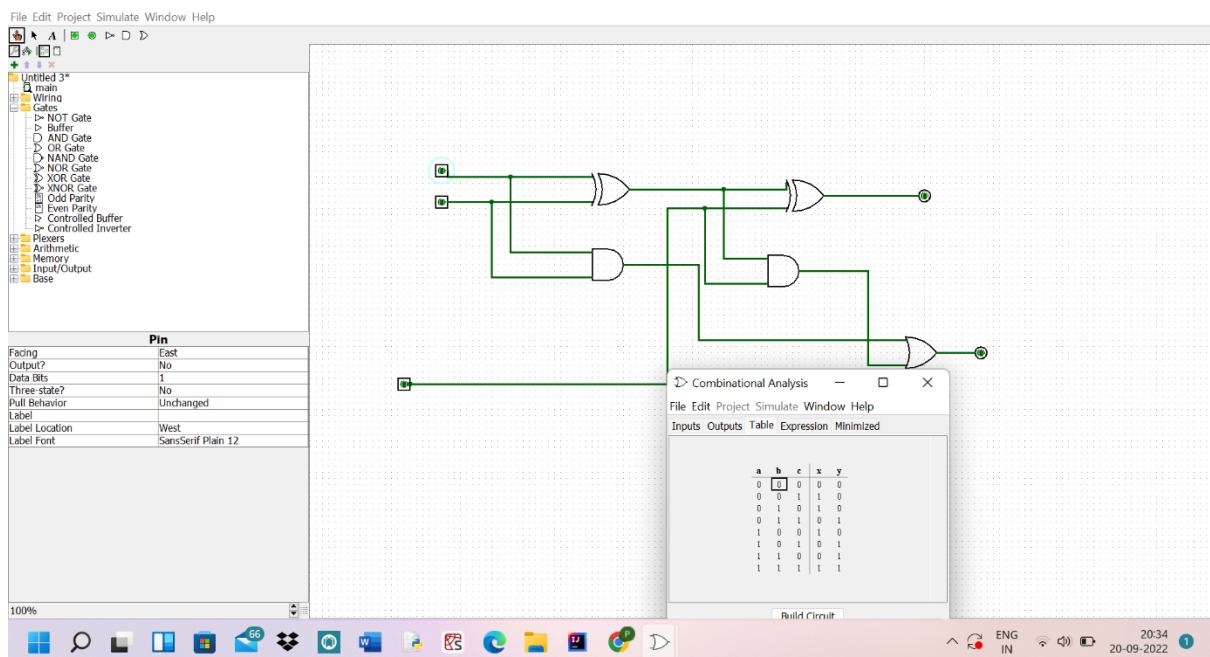
Experiment 9



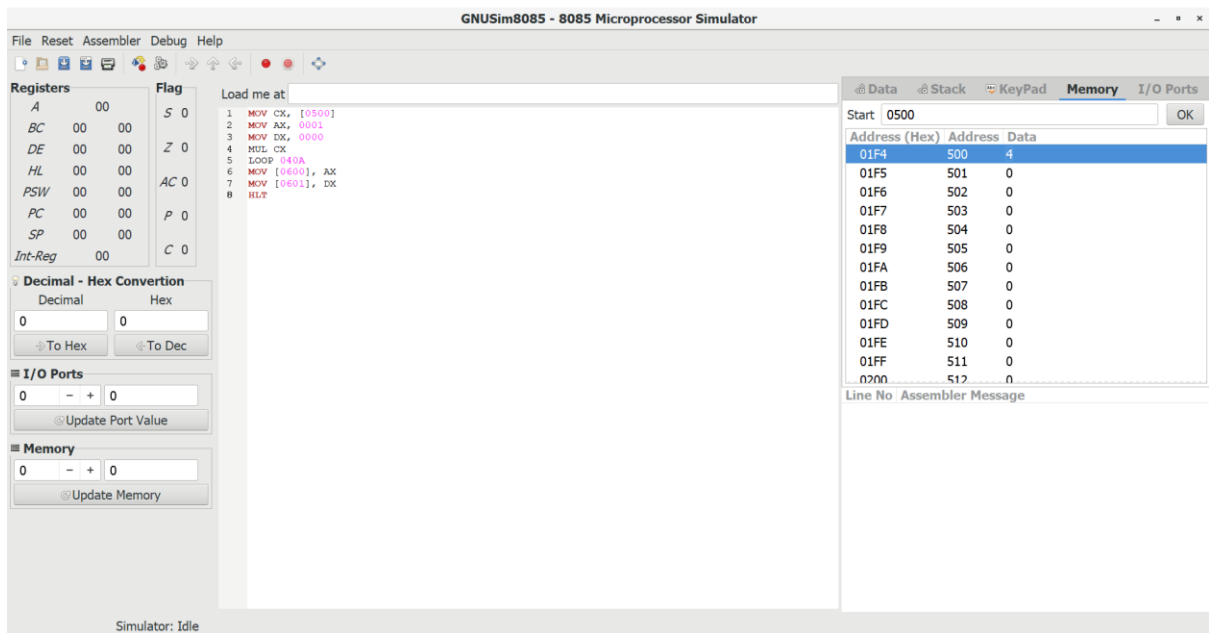
Experiment 10



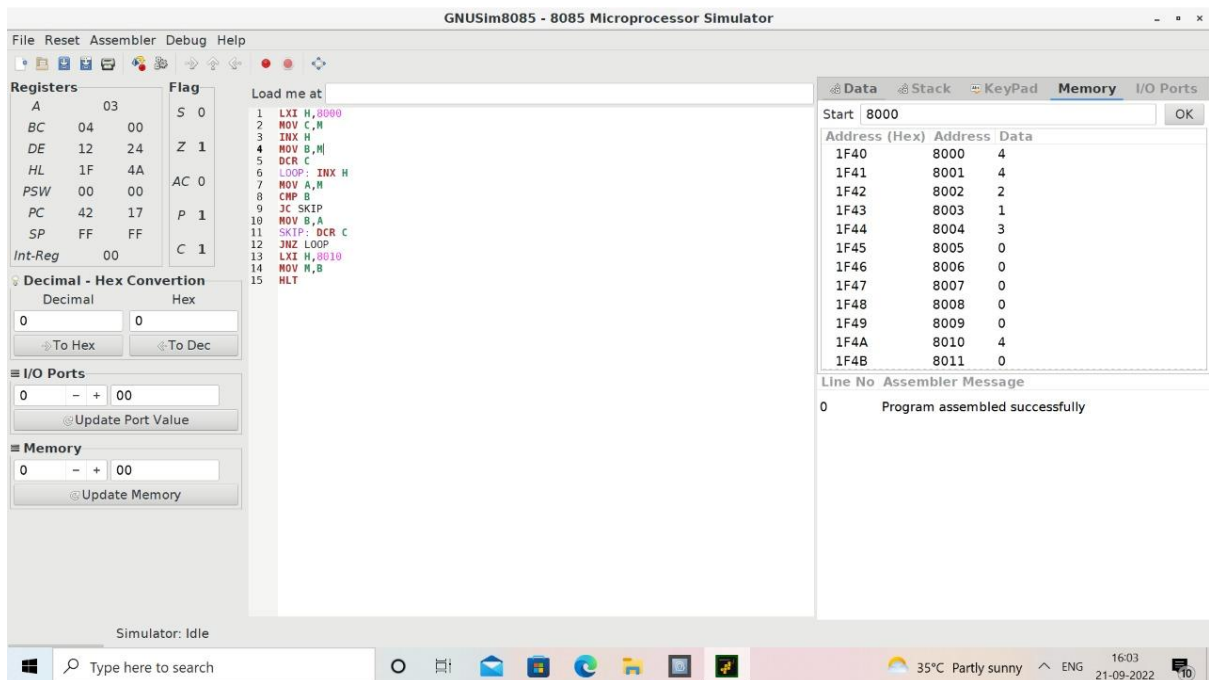
Experiment 11



Experiment 12



EXPERIMENT 13:



EXPERIMENT 14:

EXPERIMENT 15:

EXPERIMENT 16:

EXPERIMENT 17:

```
C:\Users\ACER\Desktop\booths multiplication.exe
Both must be less than 16
Enter A: 5
Enter B: 9

Expected product = 45

Binary Equivalents are:
A = 00101
B = 01001
B' + 1 = 10111

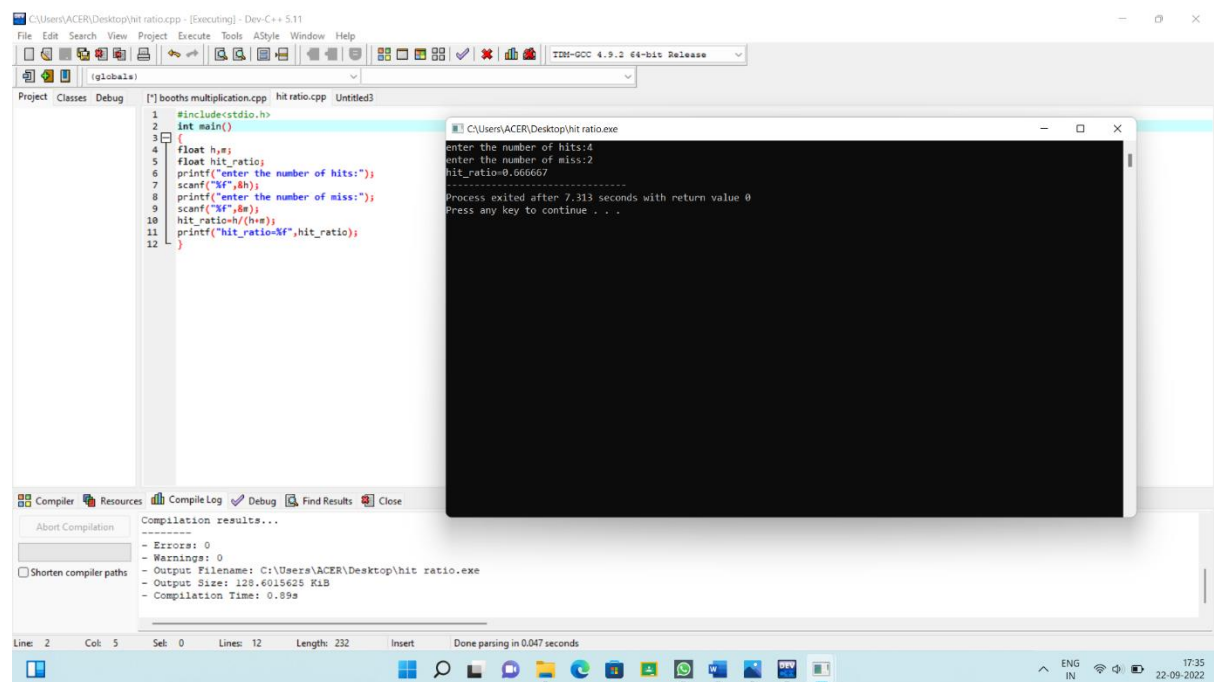
-->
SUB B: 10111:00101
AR-SHIFT: 11011:10010
-->
ADD B: 00100:10010
AR-SHIFT: 00010:01001
-->
SUB B: 11001:01001
AR-SHIFT: 11100:10100
-->
ADD B: 00101:10100
AR-SHIFT: 00010:11010
-->
AR-SHIFT: 00001:01101
Product is = 0000101101
-----
Process exited after 13.91 seconds with return value 0
Press any key to continue . . .
```

EXPERIMENT 18:

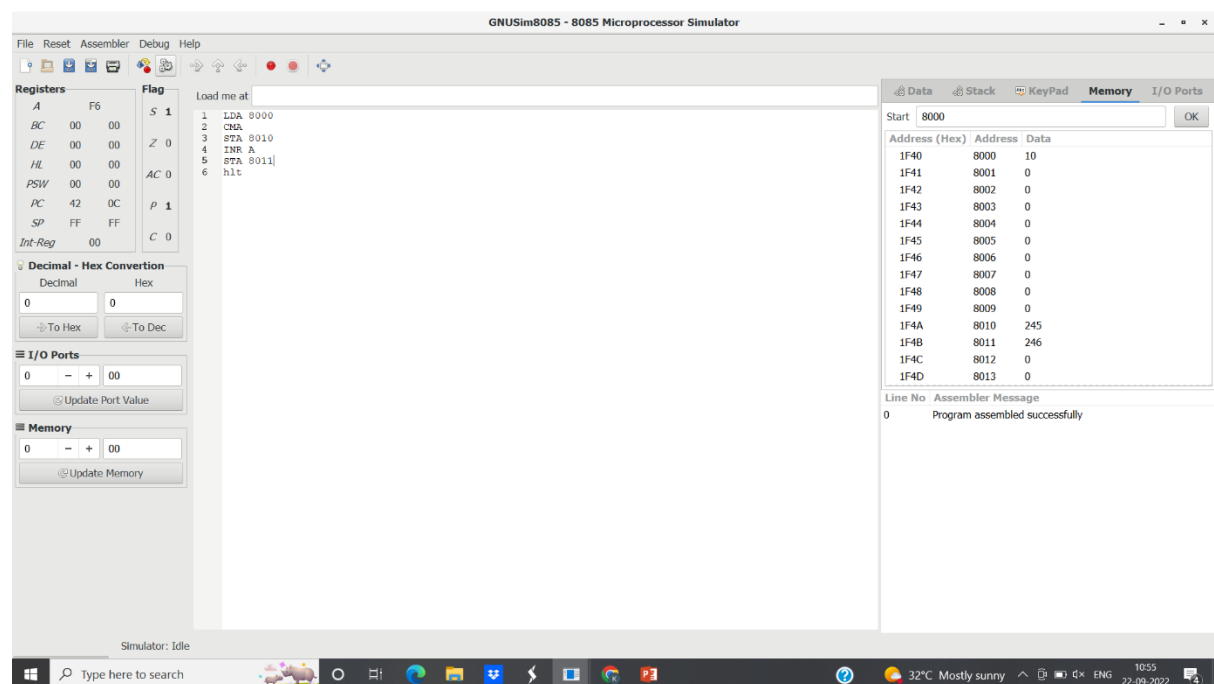
```
C:\Users\ACER\Desktop\RESTORE.exe
Enter the Number :23
9

Quotient : 00100
Remainder : 000011
-----
Process exited after 3.061 seconds with return value 0
Press any key to continue . . .
```

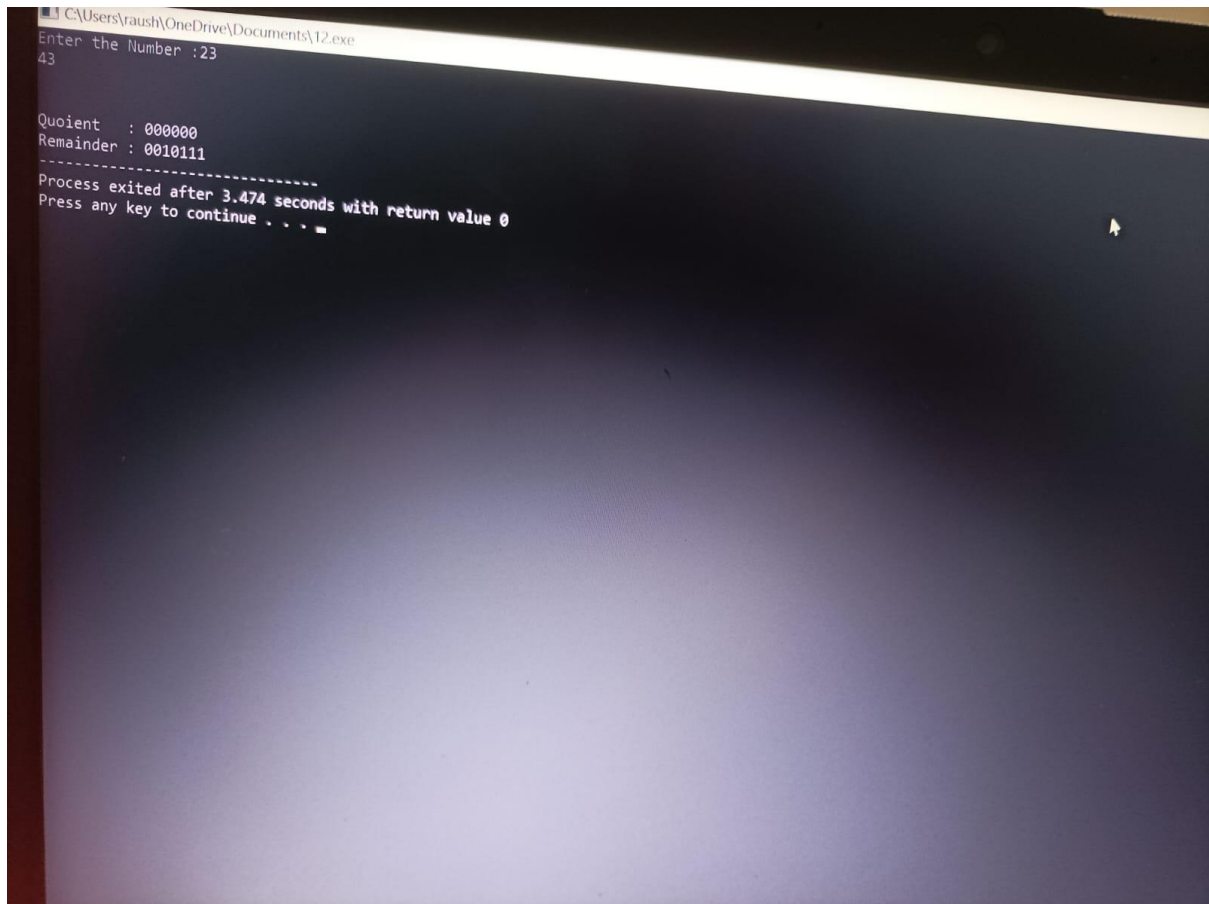

EXPERIMENT 19:



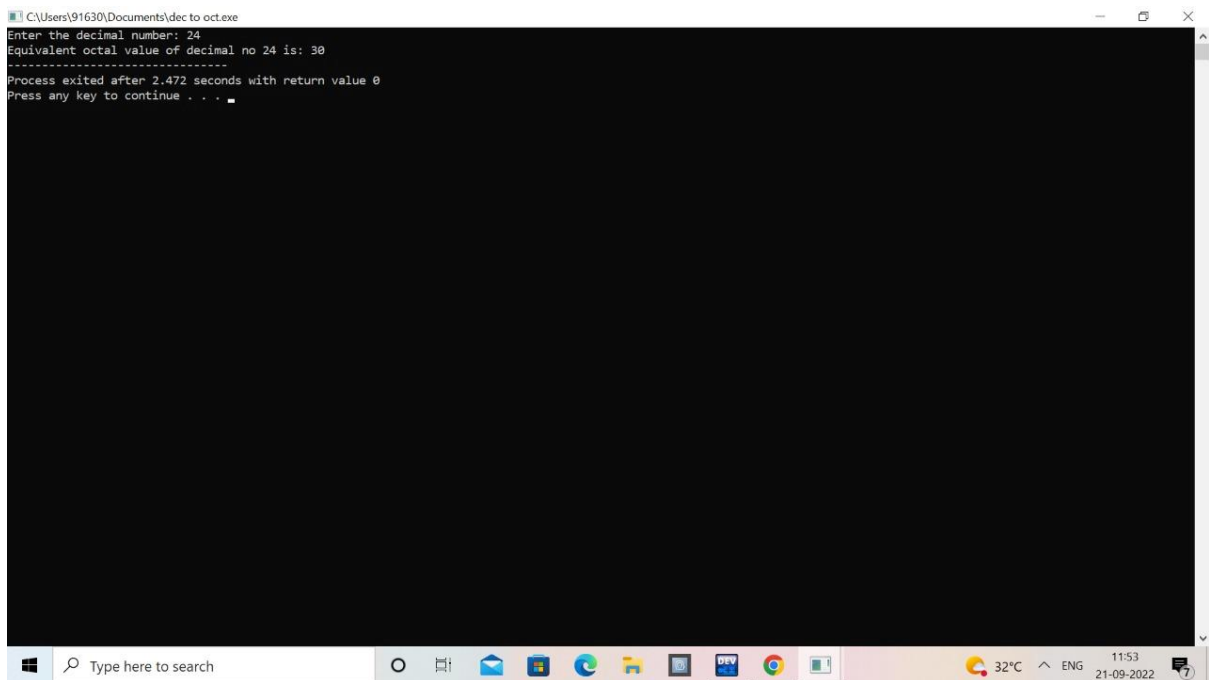
EXPERIMENT 20:



EXPERIMENT 21:



EXPERIMENT 22:



EXPERIMENT 23:

```
C:\Users\91630\Documents\bin to oct.exe
Enter a binary number with the combination of 0s and 1s
101011
The binary number is 101011
The decimal number is 43
```

EXPERIMENT 24:

```
C:\Users\ACER\Desktop\CPU PERFORMANCE.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug [*] booth's multiplication.cpp [*] hit ratio.cpp Untitled3 CPU PERFORMANCE.cpp
1 #include <stdio.h>
2 int main()
3 {
4     float cr;
5     int p,pl,i;
6     float cpu[5];
7     float cpi,ct,max;
8     int n=1000;
9     for(i=0;i<4;i++)
10    {
11        cpu[i]=0;
12    }
13    printf("\n Enter the number of processors:");
14    scanf("%d",&p);
15    pl=p;
16    for(i=0;i<p;i++)
17    {
18        printf("\n Enter the Cycles per Instrction of processor:");
19        scanf("%f",&cpi);
20        printf("\n Enter the clockrate in GHz:");
21        scanf("%f",&cr);
22        ct=1000*cpi/cr;
23        printf("The CPU time is: %f",ct);
24        cpu[i]=ct;
25    }
26    max=cpu[0];
27    //printf("%f", max);
28    for(i=0;i<p;i++)
29    {
30        if(cpu[i]<=max)
31            max=cpu[i];
32    }
33 }
```

```
C:\Users\ACER\Desktop\CPU PERFORMANCE.exe
Enter the number of processors:6
Enter the Cycles per Instrction of processor:10
Enter the clockrate in GHz:15
The CPU time is: 666.666667
Enter the cycles per Instrction of processor:4
Enter the clockrate in GHz:5
The CPU time is: 800.000000
Enter the Cycles per Instrction of processor:8
Enter the clockrate in GHz:4
The CPU time is: 2000.000000
Enter the Cycles per Instrction of processor:10
Enter the clockrate in GHz:15
The CPU time is: 666.666667
Enter the Cycles per Instrction of processor:
```

```
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\ACER\Desktop\CPU PERFORMANCE.exe
- Output Size: 128.62109375 KIB
- Compilation Time: 0.92s
```

Line: 1 Col: 2 Sel: 0 Lines: 35 Length: 638 Insert Done parsing in 0.047 seconds

EXPERIMENT 25:

GNUSim8085 - 8085 Microprocessor Simulator

File Reset Assembler Debug Help

Registers

Register	Value
A	04
BC	04 00
DE	00 00
HL	00 00
PSW	00 00
PC	42 0F
SP	FF FF
Int-Reg	00

Flag

Flag	Value
S	0
Z	0
AC	0
P	0
C	0

Load me at

```
1 LDA 0000H
2 MOV B,A
3 LDA 0001H
4 STA 0000H
5 MOV A,B
6 STA 0001H
7 HLT
8
```

Decimal - Hex Conversion

Decimal: 0 Hex: 0

To Hex To Dec

I/O Ports

0 - + 00

Update Port Value

Memory

0 - + 0C

Update Memory

Start

Address (Hex)	Address	Data
0000	0	12
0001	1	4
0002	2	0
0003	3	0
0004	4	0
0005	5	0
0006	6	0
0007	7	0
0008	8	0
0009	9	0
000A	10	0
000B	11	0
000C	12	0
000D	13	0

Line No Assembler Message

0 Program assembled successfully

Simulator: Idle

12:39 22-09-2022