Vivekanand Education Society's Institute of Technology
Department of Computer Engineering

Subject: - Microprocessor

Class:-T.E. (D12) **Semester:- V** **Div:- C**

Roll No: 29	Name: Ajay Singh Khalsa		
Exp. No: 12	Title: Program and interfacing of ADC using 8255		
DOP:		DOS:	
GRADE:	LAB OUTCOMES : LO1, LO2, LO3		SIGNATURE:

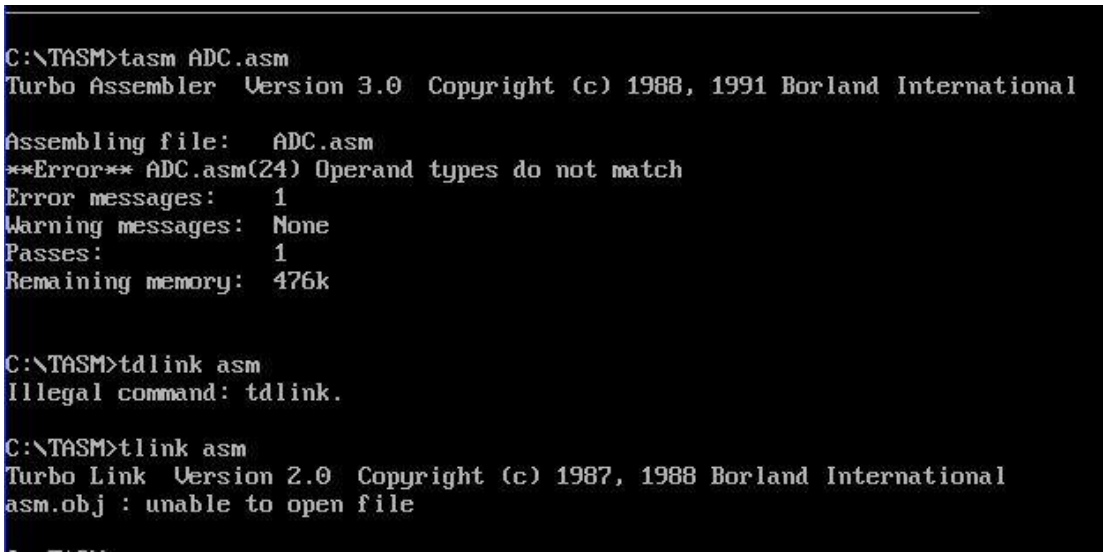
Name: Ajay Singh Khalsa **Roll No:** 29 **Div:** D12C

Aim: Program and Interfacing of ADC using 8255.

Input:

```
DATA  SEGMENT
PORTA  EQU  0FFE0H
PORTC  EQU  0FFE4H
CNTPRT  EQU  0FFE6H
MEM  DW  2000H
DATA  ENDS
CODE  SEGMENT
ASSUME  CS:CODE,DS:DATA
START:      MOV  AX,DATA
MOV  DS,AX
MOV  DX,CNTPRT
MOV  AL,98H  OUT
DX,AL
MOV  AL,01H
OUT  DX,AL
MOV  AL,00
OUT  DX,AL
MOV  DX,PORTC
CHK: IN  AL,DX
AND  AL,80H
JZ  CHK
MOV  DX,PORTA
IN  AL,DX
MOV  MEM,AL
INT  3H
CODE  ENDS
END  START
```

Output:


C:\TASM>tasm ADC.asm
Turbo Assembler Version 3.0 Copyright (c) 1988, 1991 Borland International
Assembling file: ADC.asm
Error ADC.asm(24) Operand types do not match
Error messages: 1
Warning messages: None
Passes: 1
Remaining memory: 476k
C:\TASM>tdlink asm
Illegal command: tdlink.
C:\TASM>tlink asm
Turbo Link Version 2.0 Copyright (c) 1987, 1988 Borland International
asm.obj : unable to open file

Conclusion :

Thus in this ~~we~~ experiment we learnt about 8255 IC and its interfacing with 8086 to implement a Analog to digital signal converter.