

# BITT POLYTECHNIC

## Getlatu, Ranchi-835217

### EXPERIMENT NO

**AIM:-** Separation of hexadecimal number into two digits.

**APPARATUS:-** 8085 microprocessors trainer kit.

Address	Opcode	Label	Mnemonics	Operand	Comments
2000	3A 00 21	STRAT	LDA	2100	Get the number
2003	E6 0F		ANI	0F	Mask off the first Four bits.
2005	32 00 21		STA	2101	Store result 1
2008	3A 00 21		LDA	2100	Get the number again
200B	E6 F0		ANI	F0	Mask off the last four bits
200D	32 00 21		STA	2102	Store result2
2010	EF		RST	5	

### EXAMPLE:-

Address	Data	Label
2100	AF	Number stored
2101	00	Memory before program execution
2102	00	Memory before program execution

After the program executes:-

Address	Data	Label
2100	AF	Number stored
2101	0F	LSB separated from AF
2102	A0	MSB separated from AF