**PROBLEM SHEET- 3**

1.

ORG 100h

MOV AX, 0X200

MOV BX, 0X100

MOV [BX], 'H'

INC BX

MOV [BX], 'E'

INC BX

MOV [BX], 'L'

INC BX

MOV [BX], 'L'

INC BX

MOV [BX], 'O'

MOV BX, 0X100

MOV SI, BX

MOV DI, AX

MOV CX, 4

REP MOVSB

RET

2.

ORG 100h

MOV BX, 0X200

MOV [BX], 'H'

PUSH [BX]

INC BX

MOV [BX], 'E'

PUSH [BX]

INC BX

MOV [BX], 'L'

PUSH [BX]

INC BX

MOV [BX], 'L'

PUSH [BX]

INC BX

MOV [BX], 'O'

PUSH [BX]

INC BX

INC BX

POP [BX]

INC BX

POP [BX]

INC BX

POP [BX]

INC BX

POP [BX]

INC BX

POP [BX]

INC BX

RET

4.