For the following instructions, identify the addressing modes with explanation. Also calculate the physical address of the source operand. Assume CS = 2000H, DS = 543AH, SS = 9AC5H, SI = 3200H, DI = 2ABCH, BX = 3F00H, BP = 329AH.

    i. MOV CL, 50h[BX][DI]
    ii. JMP BX
    iii. ADD AX, [SI]
    iv. MOV [BX+100H], AX

Instruction	Addressing mode	EA	PA
MOV CL, 50h[BX][DI]			
JMP BX			
ADD AX, [SI]	Register indirect	3200H	543A * 10H + 3200H = 575A0H
MOV [BX+100H], AX	Register	NA	NA