

| ① <u>Assembly Instruction</u> | <u>Memory Address (Hex)</u> | <u>Machine Language (Hex)</u> |
|-------------------------------|-----------------------------|-------------------------------|
| LXI H, 2000H | 2100 | 21 |
| | 2101 | 00 |
| | 2102 | 20 |
| MOV B, M | 2103 | 46 |
| INX H | 2104 | 23 |
| MOV C, M | 2105 | 4E |
| MOV A, B | 2106 | 78 |
| ADD B | 2107 | 80 |
| CMP C | 2108 | B9 |
| JC Make5 | 2109 | DA |
| | 210A | 14 |
| | 210B | 21 |
| JZ Make5 | 210C | CA |
| | 210D | 14 |
| | 210E | 21 |

| | | |
|----------------------------|-----------------|---------------|
| MVI D, 10H | 210F | 16 |
| | 2110 | 10 |
| JMP End → | 2111 | C3 |
| | 2112 | 16 |
| | 2113 | 21 |
| <u>Make 5</u> | | |
| MVI D, 05H | 2114 | 16 |
| | 2115 | 05 |
| <u>End</u> 2005 | 2100 | 00 |
| LXI H, 2002H | 2116 | 21 |
| | 2117 | 02 |
| | 2118 | 20 |
| MOV M, D | 2119 | 72 |
| RST 5 | 211A | EF |