

| Program in Assembly |           |                         |                     |
|---------------------|-----------|-------------------------|---------------------|
| Address             | Contents  | Contents in Hexadecimal | Register value      |
| 0H                  | MVI C, 9H | 39H                     | C=9                 |
| 1H                  | MOV A, C  | 20H                     | A=9                 |
| 2H                  | MOV B, C  | 10H                     | B=9                 |
| 3H                  | LDA DH    | 0DH                     | DH=10, A=10         |
| 4H                  | SUI 1H    | 41H                     | A=9                 |
| 5H                  | INR A     | 50H                     | A=10                |
| 6H                  | XRA C     | 60H                     | A=3                 |
| 7H                  | ORA C     | 70H                     | A=11                |
| 8H                  | ANA B     | 80H                     | A=9                 |
| 9H                  | ORI 4H    | 94H                     | A=13                |
| AH                  | CMA       | A0H                     | A=2                 |
| BH                  | MUL2      | B0H                     | A=4                 |
| CH                  | JMP EH    | CEH                     | Go to EH            |
| DH                  | 0AH       | 0AH                     | jmp skip this addr  |
| EH                  | OUT       | D0H                     | Out=4 (Result)      |
| FH                  | HLT       | F0H                     | Give HLT indication |