Ahsanullah University of Science & Technology

Course Name: Microprocessor Lab

Course No. CSE 3108

Submitted To

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| Assembly Code | Binary Code | Hex Code |
| MOV AL, 80H | 1011 0000 1000 0000 | B080 |
| OUT 1F | 1110 0110 0001 1111 | E61F |
| begin: MOV SI, 1800H | 1011 1110 0000 0000 0001 1000 | BE0018 |
| MOV CX, 10H | 1011 1001 0001 0000 0000 0000 | B91000 |
| loop1: MOV AL, [SI] | 1000 1010 0000 0100 | 8A04 |
| OUT 19 | 1110 0110 0001 1001 | E619 |
| INC SI | 0100 0110 | 46 |
| PUSH CX | 0101 0001 | 51 |
| MOV CX, FFFF | 1011 1001 1111 1111 1111 1111 | B9FFFF |
| loop2: NOP | 1001 0000 | 90 |
| LOOP loop2 | 1110 0010 1111 1101 | E2FD |
| POP CX | 0101 1001 | 59 |
| LOOP loop1 | 1110 0010 1111 0001 | E2F1 |
| JUMP begin | 1110 1011 1110 1001 | EBE9 |

Table 1: Assembly Code to Machine Code

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