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| 4.1 Translate the following assembly language instructions to their |
| corresponding machine language codes as they would be represented |
| in hexadecimal. |
| 1. loop: addu $a0, $0, $0 |
| 2. ori $v0, $0, 4 |
| 3. syscall |
| 4. addi $t0, $t0, -1 |
| 5. bnez $t0, loop |
| 6. andi $s0, $s7, 0xffc0 |
| 7. or $a0, $t7, $s0 |
| 8. sb $a0, 4($s6) |
| 9. srl $s7, $s7, 4 |

1. 0x000424021
2. 0x34400004
3. 0x0000000C
4. 0x1108FFFF
5. 0x1510FFFA
6. 0x3217FFC0
7. 0x008F8025
8. 0xA0940005
9. 0x001BD102

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| 4.2 What is the character string corresponding to the following ASCII |
| codes?   1. 0x2a2a2a2a2a2a2a2a  * “\*\*\*\*\*\*\*\*”   0x69644120  “ E@)sc4”   1. 0x4120736f   “)sdc4Io”   1. 0x6f67696d   “ogim**”**   1. **0x48202d220**   **“0dc4-“nul”**   1. **0x20657661**   **“speva”** |
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