**LAPORAN MODUL 1 PRAKTIKUM SISTEM OPERASI**

* (ASCII) American Standard Code for Information Interchange atau Kode Standar Amerika untuk Pertukaran Informasi adalah standar pengkodean karakter untuk alat komunikasi. Kode ASCII mewakili teks dalam computer, peralatan telekomunikasi, dan perangkat lainnya.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Kode ASCII**  **(desimal)** | **Kode ASCII (2-**  **ary)** | **Kode ASCII**  **(oktal)** | **Kode ASCII (heksadesimal)** | **Char (karakter)** | **Deskripsi (Pendahuluan)** |
| 00 | 0 | 0 | 0 | NULL | Null character |
| 01 | 1 | 1 | 1 | SOH | Start of Header |
| 02 | 10 | 2 | 2 | STX | Start of Text |
| 03 | 11 | 3 | 3 | ETX | End of Text, hearts card suit |
| 04 | 100 | 4 | 4 | EOT | End of Transmission, diamonds card suit |
| 05 | 101 | 5 | 5 | ENQ | Enquiry, clubs card suit |
| 06 | 110 | 6 | 6 | ACK | Acknowledgement, spade card suit |
| 07 | 111 | 7 | 7 | BEL | Bell |
| 08 | 1000 | 10 | 8 | BS | Backspace |
| 09 | 1001 | 11 | 9 | HT | Horizontal Tab |
| 10 | 1010 | 12 | a | LF | Line feed |
| 11 | 1011 | 13 | b | VT | Vertical Tab, male symbol, symbol for Mars |
| 12 | 1100 | 14 | c | FF | Form feed, female symbol, symbol for Venus |
| 13 | 1101 | 15 | d | CR | Carriage return |
| 14 | 1110 | 16 | e | SO | Shift Out |
| 15 | 1111 | 17 | f | SI | Shift In |
| 16 | 10000 | 20 | 10 | DLE | Data link escape |
| 17 | 10001 | 21 | 11 | DC1 | Device control 1 |
| 18 | 10010 | 22 | 12 | DC2 | Device control 2 |
| 19 | 10011 | 23 | 13 | DC3 | Device control 3 |
| 20 | 10100 | 24 | 14 | DC4 | Device control 4 |
| 21 | 10101 | 25 | 15 | NAK | NAK Negative-acknowledge |
| 22 | 10110 | 26 | 16 | SYN | Synchronous idle |
| 23 | 10111 | 27 | 17 | ETB | End of trans. block |
| 24 | 11000 | 30 | 18 | CAN | Cancel |
| 25 | 11001 | 31 | 19 | EM | End of medium |
| 26 | 11010 | 32 | 1a | SUB | Substitute |
| 27 | 11011 | 33 | 1b | ESC | Escape |
| 28 | 11100 | 34 | 1c | FS | File separator |
| 29 | 11101 | 35 | 1d | GS | Group separator |
| 30 | 11110 | 36 | 1e | RS | Record separator |
| 31 | 11111 | 37 | 1f | US | Unit separator |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 127 | 1111111 | 177 | 7f | DEL | Delete |

* Daftar perintah Bahasa assembly untuk mesin intel keluarga x86 lengkap.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Instruksi** | **Keterangan Singkatan** |  | **Instruksi** | **Keterangan Singkatan** |
| ACALL | Absolute Call | LJMP | Long Jump |
| ADD | Add | MOV | Move from Memory |
| ADDC | Add with Carry | MOVC | Move from Code Memory |
| AJMP | Absolute Jump | MOVX | Move from Extended Memory |
| ANL | AND Logic | MUL | Multiply |
| CJNE | Compare and Jump if Not Equal | NOP | No Operation |
| CLR | Clear | ORL | OR Logic |
| CPL | Complement | POP | Pop Value From Stack |
| DA | Decimal Adjust | PUSH | Push Value Onto Stack |
| DEC | Decrement | RET | Return From Subroutine |
| DIV | Divide | RETI | Return From Interrupt |
| DJNZ | Decrement and Jump if Not Zero | RL | Rotate Left |
| INC | Increment | RLC | Rotate Left through Carry |
| JB | Jump if Bit Set | RR | Rotate Right |
| JBC | Jump if Bit Set and Clear Bit | RRC | Rotate Right through Carry |
| JC | Jump if Carry Set | SETB | Set Bit |
| JMP | Jump to Address | SJMP | Short Jump |
| JNB | Jump if Not Bit Set | SUBB | Subtract With Borrow |
| JNC | Jump if Carry Not Set | SWAP | Swap Nibbles |
| JNZ | Jump if Accumulator Not Zero | XCH | Exchange Bytes |
| JZ | Jump if Accumulator Zero | XCHD | Exchange Digits |
| LCALL | Long Call | XRL | Exclusive OR Logic |