FIT1047

SUPPLEMENTARY WORKSHEET - WEEK 04

MARIE Programming Exercise (Part -3)

| 1. In MARIE assembly, use the HEX keyword to put the following string into memory: | | |
|--|--|--|
| FIT1047, | HEX 046 | |
| | HEX 049 | |
| | HEX 054 | |
| | HEX 031 | |
| | HEX 030 | |
| | HEX 034 | |
| | HEX 037 | |
| | HEX 000 | |
| | gram is available in the online book (Alexandria). This can be used to understand the tasks: indirect addressing, skipcond, looping, string, accessing a string and termination of a | |
| End, HOne, DAddr, H | LoadI Addr SkipCond 800 Jump End Dutput Load Addr Add One Store Addr Jump Loop Halt DEC 1 DEC 0 HEX 00C DEC 70 DEC 73 DEC 84 DEC 0 | |
| 3. An exa | ample MARIE program that uses a subroutine to print some user input. | |

| | To a cit | | |
|--|---------------------|----------------------------|--|
| 1 | Input | | |
| 2 | Store Print_Arg | | |
| 3 | JnS Print | | |
| 4 | Input | | |
| 5 | Store Print_Arg | | |
| 6 | JnS Print | | |
| 7 | Halt | | |
| 8 | | | |
| 9 | / Subroutine that p | rints one number | |
| 10 P | rint_Arg, DEC 0 | / put argument here | |
| 11 P | Print, HEX 0 / plac | eholder for return address | |
| 12 | Load Print_Arg | | |
| 13 | Output | | |
| 14 | Jumpl Print | / return to caller | |
| This code gets a user input and stores it in the location where the subroutine expects its argument. | | | |