**Team 9**

**Important notes:**

* **The line “Input program is valid” get printed even if there exist semantic errors. It only indicates that there is no syntax errors**
* **to run type compile.sh, you must provide the code file name while running the executable**

**For example: ./a.out code\_file.txt**

**Quadrapules:**

Registers names are [$0, $1, $2 .. ]

|  |  |
| --- | --- |
| CPY V $0 | $0 <- v |
| ADD $1 $2 $0 | $0 <- $1 + $2 |
| SUB $1 $2 $0 | $0 <- $1 - $2 |
| DIV $1 $2 $0 | $0 <- $1 / $2 |
| MUL $1 $2 $0 | $0 <- $1 \* $2 |
| AND $1 $2 $0 | $0 <- $1 && $2 |
| OR $1 $2 $0 | $0 <- $1 || $2 |
| MOD $1 $2 $0 | $0 <- $1 % $2 |
| JMP LBL | Jump to label |
| JNZ $0 LBL | Jump to label if $0 is not equal 0 |
| JZ $0 LBL | Jump to label if $0 is equal 0 |
| PROC ident | Define new procedure |
| RTN | Return from procedure |
| EQ $1 $2 $0 | Check if $1 and $2 are equal and the result in $0 is 1 of 0 |
| NEQ $1 $2 $0 | Check if $1 and $2 are not equal and the result in $0 is 1 of 0 |
| GT $1 $2 $0 | Check if $1 is greater then $2 and the result in $0 is 1 of 0 |
| LT $1 $2 $0 | Check if $1 is less then $2 and the result in $0 is 1 of 0 |
| GTE $1 $2 $0 | Check if $1 is greater then or equal $2 and the result in $0 is 1 of 0 |
| LTE $1 $2 $0 | Check if $1 is less then or equal $2 and the result in $0 is 1 of 0 |