

ASSEMBLY LANGUAGE

1. What is the sum of the outputs of the following assembly program after it is executed?

```
A      DC      4213
B      DC      16
TOP    LOAD    A
        DIV    B
        STORE  C
        BE    DOWN
        LOAD  C
        MULT  B
        STORE  E
        LOAD  A
        SUB   E
        STORE  F
        PRINT F
        LOAD  C
        STORE  A
        BU    TOP
DOWN   PRINT  A
        END
```

2. What is output after this program is executed?

```
A      DC      36
        LOAD  A
        DIV  10
        STORE B
        MULT 10
        STORE C
        LOAD  A
        SUB   C
        STORE D
        MULT 10
        ADD  B
        STORE E
        SUB  A
        DIV  9
        STORE G
        PRINT G
        END
```