

## 9A) FLOATING POINT NUMBER

```
AREA PGM, CODE, READONLY
ENTRY
EXPORT START
START
    LDR r0,=0XE000ED88
    LDR r1,[r0]
    ORR r1,r1,#(0XF<<20)
    STR r1,[r0]
    LDR R1,=0X00000000A
    VMOV.F32 S7,#0X41280000
    VCVT.F32.U32 S17,S17
    VMOV.F32 S8,#0X40200000
    VMOV.F32 S9,#0X40200000
    VADD.F32 S10,S8,S9
    VMUL.F32 S11,S8,S7
    VSUB.F32 S12,S11,S10
    VNEG.F32 S13,S12
    VABS.F32 S14,S13
    VDIV.F32 S15,S11,S10
    VMLA.F32 S11,S8,S9
LOOP B LOOP
END
```