

```

1A)
    AREA PROG1, CODE, READONLY
ENTRY
    EXPORT START
START
    MOV R1, #0
    MOV R2, #05
    MOV R3, #04
    MOVS R0, R1
    MOVEQ R0, R2
    MOVS R3, #0
    MOVEQ R0, R3
    MVN R2, R2
STOP B STOP
    END

```

```

2B)ADD 32-BIT NUMBER
    AREA PROG1, CODE, READONLY
ENTRY
    EXPORT START
START
    LDR R0, =10
    LDR R1, =20
    ADD R2, R0, R1
STOP B STOP
    END

```

```

3A)ADD FIRST 10 NUMBER

    AREA PROG2, CODE, READONLY
ENTRY
    EXPORT START
START
    LDR R0, =10
    LDR R1, =0
    LDR R2, =1
LOOP
    ADD R1, R2, R1
    ADD R2, R2, #1
    SUBS R4, R0, R2
    BNE LOOP
    ADD R1, R2, R1
STOP B STOP
    END

```

```

4A)REV SUB OF TWO 32BIT NUMBER

    AREA MYCODE, CODE, READONLY
ENTRY
    EXPORT START
START
    LDR R1, =0X11111111
    LDR R2, =0X22222222
    RSB R0, R1, R2
STOP B STOP
    END

```

```

5A)FACTORIAL OF NUMBER

    AREA PROG5, CODE, READONLY
ENTRY
    EXPORT START
START
    MOV R6, #10
    MOV R7, #1

```

```
LOOP CMP R6, #0
      MULGT R7, R6, R7
      SUBGT R6, R6, #1
      BGT LOOP
STOP B STOP
END
```