DIVIJA 102018056 csbs3

Question 2

AREA PROGRAM, CODE, READONLY

ENTRY

MOV R0,#15

CMP R0,#01

BEQ PRIME

CMP R0,#02

BEQ PRIME

MOV R1,R0

MOV R2,#02

UP

BL DIVISION

CMP R8,#00

BEQ NOTPRIME

ADD R2,R2,#01

CMP R2,R1

BEQ PRIME

B UP

NOTPRIME

LDR R3,=0x11111111

B STOP

PRIME

LDR R3,=0xFFFFFFFF

STOP B STOP

DIVISION

MOV R8,R0

MOV R9,R2

LOOP

SUB R8,R8,R9

ADD R10,R10,#01

CMP R8,R9

BPL LOOP

MOV PC,LR

END

