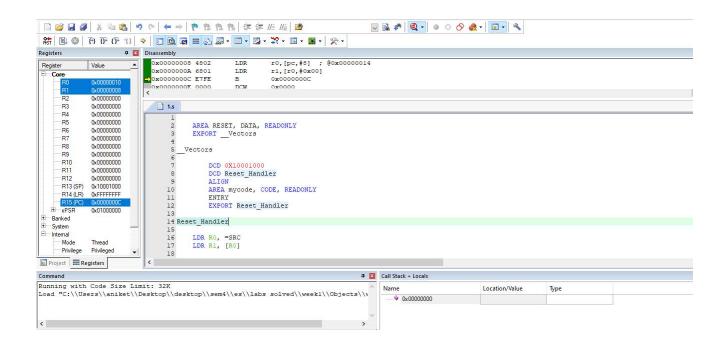
WEEK 1

Embedded System

Section A	
Roll no-58	
Reg no-190905466	
1.	
	AREA RESET, DATA, READONLY
	EXPORTVectors
Vectors	
	DCD 0X10001000
	DCD Reset_Handler
	ALIGN
	AREA mycode, CODE, READONLY
	ENTRY
	EXPORT Reset_Handler
Reset_Handler	
	LDR RO, =SRC
	LDR R1, [R0]
STOP	
	B STOP

Aniket sambher

SRC DCD 8



```
2.
```

```
AREA RESET, DATA, READONLY

EXPORT __Vectors

__Vectors

DCD 0X10001000

DCD Reset_Handler

ALIGN

AREA mycode, CODE, READONLY

ENTRY

EXPORT Reset_Handler
```

Reset_Handler

LDR RO, =SRC

LDR R1, =DST

LDR R3, [R0]

STR R3, [R1]

STOP

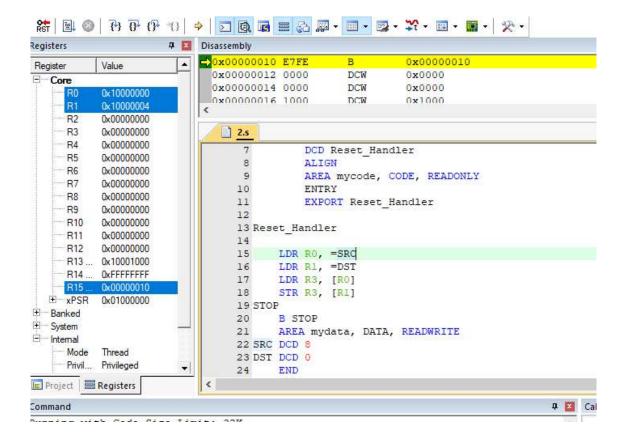
B STOP

AREA mydata, DATA, READWRITE

SRC DCD 8

DST DCD 0

END



3.

AREA RESET, DATA, READONLY

EXPORT __Vectors

__Vectors

DCD 0X10001000

DCD Reset_Handler

ALIGN

AREA mycode, CODE, READONLY

ENTRY

EXPORT Reset_Handler

Reset_Handler

LDR RO, =SRC

LDR R1, =DST

MOV R3,#10

AGAIN LDR R4, [R0],#4

STR R4, [R1],#4

SUBS R3,#1

BNE AGAIN

STOP

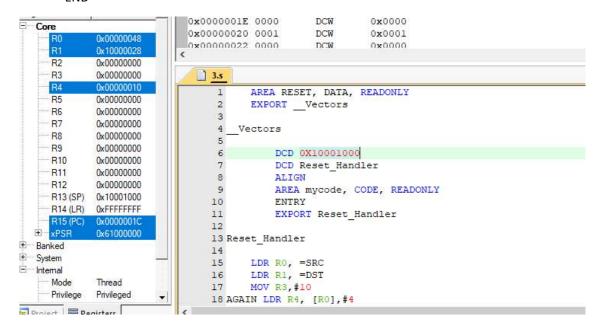
B STOP

SRC DCD 0x01,0x02,0x03,0x04,0x05,0x06,0x07,0x08,0x09,0x10

AREA mydata, DATA, READWRITE

DST DCD 0

END



4.

AREA RESET, DATA, READONLY

EXPORT __Vectors

__Vectors

DCD 0X10001000

DCD Reset_Handler

ALIGN

AREA mycode, CODE, READONLY

ENTRY

EXPORT Reset_Handler

Reset_Handler

```
LDR R0,=SRC

LDR R1,=SRC

ADD R1,#36;shift the R1 to the last location i.e 8*9=36

MOV R2, #5;total 5 iterations

AGAIN LDR R3,[R0]

LDR R4,[R1]

STR R3,[R1], #-4

STR R4,[R0], #4

SUBS R2, #1

BNE AGAIN
```

STOP

B STOP

AREA mydata, DATA, READWRITE

SRC DCD 0x01,0x02,0x03,0x04,0x05,0x06,0x07,0x08,0x09,0x10

END

