LAB 2: Report

1.Explain what these lines mean

AREA: instructs the assembler to assemble a new code

|.text|: Name of the area used for codes produced by C compiler

CODE: machine instructions

READONLY: what is stored cannot be changed

ALIGN = 2: adjust location counter to word boundary, in this case is 22-byte boundary (16bits)

THUMB: particular set of instruction (library)

2.What is the value of R0, R1, R2, and PC at the start and at the end of the program?

Start: R0 = 0x0000000, R1 = 0x0000000, R2 = 0x0000000, PC = 0x0000026C

End: R0 = 0x0000004, R1 = 0x0000005, R2 = 0x0000009, PC = 0x000002A4

3.Explain the S B S line of code

4.Expand the program to solve 4+5+9-3 and save the result in the 40th word in memory. Take a screen shot of the memory for your lab report.

