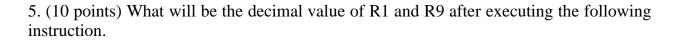
SAMPLE FINAL EXAM EET 340

Name:
1. (10 Points) Provide definition of the followings: a. Assembly language b. Machine Code
2. (10 Points) Convert Decimal value to binary and then convert to hexadecimal value
(Show the steps of calculation): 21_{10}

3. (15	Points)	Translate	the	following	LEGV8	assembly	instruction	into	a	machine
instruc	tion: AD	DI X9, X9	, #1							

4. (15 Points) Convert the following C++ code to LEGv8 Assembly code. Assume the variable a is in X22 and base address of array b is in X23.

```
for(i=0,i<a,i++)
{
    b[i] = a + i;
}</pre>
```



MOV R9, #10 LSL R1, R9, #3

6. (15 Points) Convert following floating-point values to IEEE-754 single precision format. Convert the result in hexadecimal and show all the steps of calculation: 2.75

