Information you may find useful

Powers of two

2^{9}	2^{8}	2^7	2^{6}	2^{5}	2^{4}	2^3	2^{2}	2^{1}	2^{0}
512	256	128	64	32	16	8	4	2	1

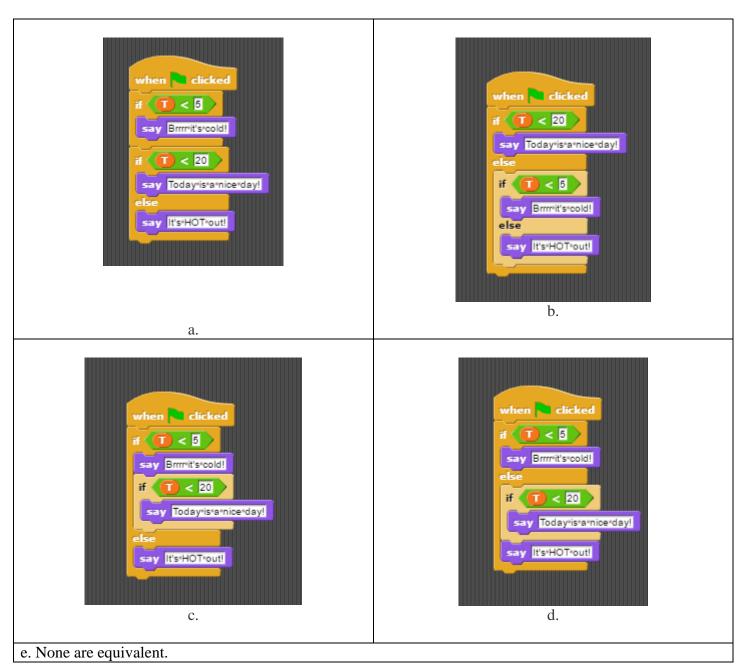
Hexadecimal digits

Binary	Decimal	Hexadecimal
representation	representation	representation
0000	0	0
0001	1	1
0010	2	2
0011	3	3
0100	4	4
0101	5	5
0110	6	6
0111	7	7
1000	8	8
1001	9	9
1010	10	A
1011	11	В
1100	12	С
1101	13	D
1110	14	Е
1111	15	F

Problem 1: Multiple Choice – circle the correct answer [1 marks]



i. Circle the algorithm that is equivalent to the one above



Problem 2: True or False

Circle the correct answer to each question

Liability is a big stumbling block in creating a driverless car	True	False
Any type of graph is equally suited for expressing any type of information	True	False
A line graph is well suited for showing population growth over a range of years	True	False
A pie graph is well suited for showing test scores in a class	True	False
Cloud computing refers to the ability to store information wirelessly	True	False
One example of an association rule is that people who buy diapers tend to buy beer	True	False
Computer animated movies tend to have more realistic treatment of light than hand animated movies	True	False

Problem 3: Define this [2 marks]

Expand the following acronyms to their full version as discussed in class. Note that adding additional definitions may result in your losing points

a. IR

b. NLP

c.

Problem 4: Number conversion [2 marks]

a. [2 marks] Translate the following hexadecimal number to binary: CAFE1

Problem 5: Artificial Intelligence [4 marks]

a.	Given what we have learned in class, which job below is more likely to be automated? Why? Paralegals Singers
b.	Is it likely that all our jobs are going to be taken over by robots? Why or why not?

Problem 6 [2 marks]

a. Is the following advertisement potentially misleading? Why?



Yes, this is potentially misleading because it's unclear what sample set the 9 out of 10 doctors is taken

b.