ENPM 696 Assignment 1   Name: _____   Date: _____

Note: This assignment must be completed without the aid of computers, tablets, cell phones, etc.

1. What is decimal number 4023 in:

        Binary   _____

        Hex   _____

2. What is binary number 11000111101 in hexadecimal?

3. Implement the following if-else statement in IA-32 assembly language, ensure the short circuit is
    implemented correctly and the implementation is as efficient as possible

```
if (variable1 != 0 && variable2 >= 1) {
        /* CodeBlock One */
} else {

        /* CodeBlock Two */
}
```


4. Implement the following if-else statement in IA-32 assembly language as efficient as possible

```
if (variable < 15) {
        /* CodeBlock One */
} else if (variable < 35) {
        /* CodeBlock Two */
} else {
        /* CodeBlock Three */
}
```

5. Implement the following if-else statement in IA-32 assembly language, ensure the short circuit is implemented correctly and the implementation is as efficient as possible

```
if (variable1 <= 65 || variable2 > 91) {
        /* CodeBlock One */
} else {

        /* CodeBlock Two */
}
```

6. Implement the following if statement in IA-32 assembly language, ensure the short circuit is implemented correctly

```
if ((variable1 <= 65 && variable2 > 91) || variable3 == 0) {
        /* CodeBlock */
}
```