1. Based on the slides, there are 5 instruction which can use for MIPS multiplication. please **mention** **& explain** what are the uses for each instruction

* Mult rs, rt -> multiply rs & rt
* Multu rs,rt -> same as mult but unsigned numbers meaning no overflow
* Mfhi rd -> move from hi to rd
* Mflo rd -> move from lo to rd
* Mul rd, rs, rt -> multiply rs & rt, put result in rd

2. Based on the slide p.54 (Multiply Algorithm (Ver.2)), please fill in the blanks which illustrate multiplying process step by step, with given unsigned multiplicand 0111, and unsigned multiplier 0110.

0111 x 0110

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| **Multiplicand** | **Product** | |
| **0111** | **0000** | **0110** |
|  | **0000** | **0011** |
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| **Multiplicand** | **Product** | |
| **0111** | **0000** | **0110** |
| **0111** | **0000** | **0011** |
|  | **0111** | **0011** |
| **0111** | **0011** | **1001** |
|  | **1010** | **1001** |
| **0111** | **0101** | **0100** |
| **0111** | **0010** | **1010** |