# Branch OPCODE :: 8 Bits , Offset :: 8 Bits

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| **Instructions** | **OPCODE(Binary)** |
| BR (Branch unconditionally) | 10100 000 |
| BEQ (Branch if equal) | 10100 001 |
| BNE (Branch if not equal) | 10100 010 |
| BLO (Branch if Lower) | 10100 011 |
| BLS (Branch if Lower or same) | 10100 100 |
| BHI (Branch if Higher) | 10100 101 |
| BHS (Branch if Higher or same) | 10100 110 |

# No operand

**OPCODE :: 5 Bits and 11 don’t care**

|  |  |
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| **Instructions** | **OPCODE(Binary)** |
| HLT (Halt) | 1110 0 00000000000 |
| NOP (No Operation) | 1110 1 00000000000 |

# Jump Sub-Routine

**OPCODE :: 6 Bits**

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| **Instructions** | **OPCODE(Binary)** |
| JSR (Jump to subroutine) | 1111 00 |
| RTS (Return from subroutine) | 1111 01 |
| INTERRUPT | 1111 10 |
| IRET | 1111 11 |