Q: Consider and explain the commutation sequence of the BLDC motor that enables a rotation in CW direction. Note that the direction is contrary to the example CCW rotation illustrated in this lecture.

A: Listed as below:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Phase | A\_H | A\_L | B\_H | B\_L | C\_H | C\_L |
| 1 | PWM | 0 | 0 | 1 | 0 | 0 |
| 2 | PWM | 0 | 0 | 0 | 0 | 1 |
| 3 | 0 | 0 | PWM | 0 | 0 | 1 |
| 4 | 0 | 1 | PWM | 0 | 0 | 0 |
| 5 | 0 | 1 | 0 | 0 | PWM | 0 |
| 6 | 0 | 0 | 0 | 1 | PWM | 0 |