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| SL No. | Sub problems | Means 1 | Means 2 | Means 3 | Means 4 |
| 1. | **Pen movement**  **(up and down)** | Stepper Motor | DC Motor | Servo Motor |  |
| 2. | **Base material** | Wood | Glass | Acrylic |  |
| 3. | **Pen movement**  **(horizontal and vertical)** | Linear Rails | Linear bearing | V-slots Rails | Belt and Pulley system |
| 4. | **Sensor**  **(for sensing the paper)** | Infrared(IR) sensor | Light sensor | Proximity sensor | Ultrasonic Sensor |
| 5. | **Pen holder** | clamp holder | Screw Holder | 3D printed holder |  |
| 6. | **Indicator** | Buzzer | LCD Screen display | LED indicator | Speaker |
| 7. | **Controlling** | Switch or Button | External Remote | Smartphone app |  |