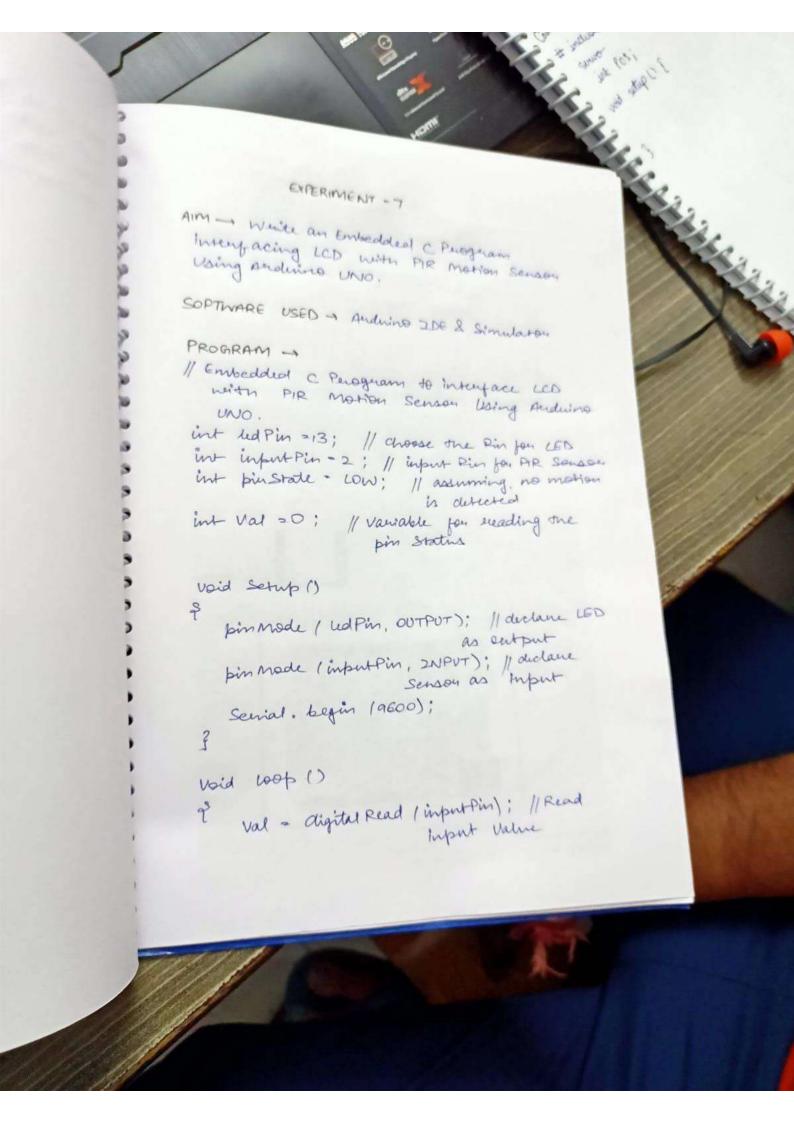
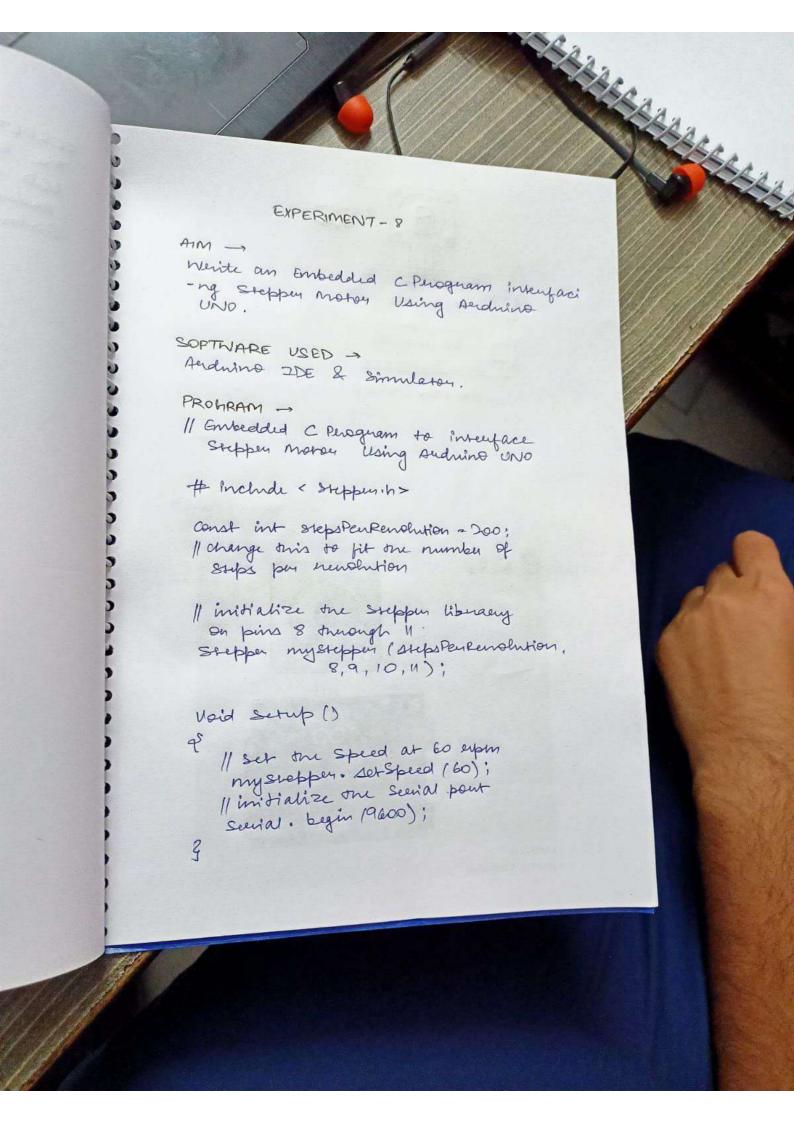
int Posi 3 Opto bis EXPERIMENT - 5 AM -> Werite an Embedded C Purgeram for Seems Moray intenfaced with Aeduino ano. SOFTWARE USED -> Andring IDE & Simulator. 5 8 PROGRAM -> 800 11 Embedded C Perogram for seems motor interfaced with Andrino UNO. -# include < seena. h> Seemo mysemo; 0 int bos; 5 Void Setup () mysemo. attach (10); Void Loop () 11 loop for clockwise monement of Seems Motor for (pos =0; pos <= 180; pos++) mysumo. house (pos); delay (10); coop for anti-clockwise movement of Seems Motor for (pos = 180; pos >= 0; pos --) myseume. write (pas); delay (10);

EXPERIMENT - 6 AIM - Werite an Embedded c Perogram intent acing LCD neith Pulse width Madulation using Andrino UNO. SOPTWARE USED & Andring 2DE & Simulaton. PROGRAM -> // Embedded c Perogram to interface LCD heits Pulse Width modulation Using Andriero UNO. Void Setup () 3 bin mode (10, OUTPUT); void Loop () // duty Cycle = 25% analoghenite (10, 64); dulay (2000); 1/ duty Cycle - 50%. analog Werite (10, 127); delay (4000); 11 duty Cycle = 75% analogillente (10, 191); delay (7000); 11 duty cycle = 100%. analoghente (10, 255); delay (5000); / duty Cycle = 0% analog Wente (10,0); delay (4000);



1/ Charte if lupur in Mon digital relieft / reduin, monty; 11 them LEG ON 4 (or since - con) // turned on LLT. Scental. putnith ("motion betieted;"); Il perioding the output change and not output shots pinstale " HIGH! che // turn LED OFF digital Read (UdPin, LOW); if (pinstate == HIGH) 11 trumed OPP "Sevial. peintle (" motion ended!"); Il perinting the output change and not output state pin state = LOW; 3 3



Void woop () 11 step one Renolution in one direction Serial. perintly (" Clockneise"); my Steppen. selp (400); dulay (500); 11 Step one Renobution in other direction Sevial. perintly (" counter Clockwise"); my Steppen. step (400); dulay (500); RESULT -> The Embedded C Perogram interfacing Steppen motor Using Andrino UND is weitten and simulated successfully.