

Project Ideas –BEE12CD

Gp/No	Project Title	Remarks
1.	Vending Machine (Moore)	
2.	2-Digit Calculator with Display (Addition, Subtraction, sine, cosine)	
3.	3-Digit Combinational Lock Combinational	
4.	Digital Clock with Time Preset, Reset and Alarm features	
5.	Digital Stopwatch with Minutes and Seconds Display	
6.	6-bit Binary to BCD Conversion Algorithm Implementation	
7.	Obstacle Avoiding Robot with Distance Display	
8.	Digital Tasbeeh	
9.	Stepper Motor Controller	
10.	Water Level Indicator	
11.	3-Digit Number Guessing Game in 5 Attempts with Ranging Method and Score display	
12.	Four-Way Traffic Light Controller	
13.	Catch or Die	
14.	Gregorian Calendar with leap year detection	Arduino kit can be used for display
15.	8-bit Arithmetic Logic Unit (ALU) Game	
16.	Smart Vehicle Parking Management System	
17.	Speed Checker for Highways	
18.	Vending Machine (Mealy)	
19.	Sequence Detector to detect two 6-bit sequences (Mealy) and its Applications	
20.	6- bit Lock (Sequential) with D flip-flops	
21.	Electronic Cricket Score Board (00-99) with digital Display	
22.	Tachometer	
23.	Quiz Competition Game	
24.	Excess-3 Adder-Subtractor Circuit with Display	
25.	Multi-functional LED Cube	
26.	Binary Clock with Preset, Reset and Alarm	
27.	Password Protected Attendance System	
28.	Synchronous data transmission with parity generation and checking	
29.	2-storey elevator control	
30.	3x3 TIC TAC Toe Game with display	
31.	Home Security System wit given specifications	
32.	3-Digit Number Guessing Game Circuit with	

	display.	
33.	Tug of War Game	
34.	Hangman Game	Arduino kit can be used for display
35.	4-digit Password Protected Circuit Breaker	
36.	8-bit Johnson Counter with states decoding with NOR-gates and states display	
37.	Time Management System/Hospitals	
38.	Digital Clock with Time Preset, Reset and Alarm features	
39.	IC Tester	
40.	Wind Direction Detection using 4-bit Gray Code	
41.	Home automation and security	
42.	Combinational Lock with Demux Implementation	
43.	ASCII Parity Generator and Checking	
44.	Whack a mole	
45.	Toy car using DTMF decoder	
46.	2-Digit BCD/Binary Adder-Subtractor Circuit with Display (Combinational)	
47.	Sequence Detector to detect two 6-bit sequences (Moore) and its Applications	
48.	Barrel/Logic Shifter	
49.	Boolean calculator	
50.	Tablets Box with Reminder System	
51.	Boolean Algebra Calculator	
52.	Design of Multiplier Circuit (Combinational) with display	
53.	Smart Traffic Controller	
54.	2-Digit BCD/Binary Adder-Subtractor Circuit with Display (Sequential)	
55.	Binary Divider with Display (Sequential)	
56.	Chronograph Design	
57.	Morse Code Machine Design	