



ECEN Academy

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ESP – Keypad – Problems Set - 1

Instructions:

1. Do not discuss with any one while solving the problems
2. Do not use internet while solving the problems
3. Do not use books while solving the problems
4. Do not try to copy from others
5. Do the problems in an easy way.

Use 4 x 4 Keypad and Quad 7 Segment Display

Use the following Keypad Layout.





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01 Press any switch & display that number.

Ex: 1 -> 1, 2 ->2, ... 8 -> 8,9 -> 9,0 -> 0.

02 Press 4 digits and display that Number.

Ex: 1234,6754, 9870, etc

03 Perform Single Digit Addition

Ex: $6 + 7 = 13$, $9 + 4 = 13$

04 Perform Two Digit Addition

Ex: $61 + 72 = 133$, $19 + 42 = 61$

05 Perform three Digit Addition.

Ex: $161 + 656 = 817$ $659 + 765 = 1424$



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- 06 Perform any digit Addition. If the total exceeds 9999 then display “EEEE”**
Ex: $1561 + 2 = 1563$, $8765 + 987 = 9752$
- 07 Perform any digit Subtraction. If the total exceeds 9999 then display “EEEE”. Display Negative result also.**
Ex: $1561 - 2 = 1559$, $765 - 987 = -22$
- 08 Perform any digit Multiplication. If the total exceeds 9999 then display “EEEE”.**
Ex: $25 \times 40 = 1000$, $1111 \times 8 = 8888$
- 09 Perform any digit Division. Display only Quotient.**
Ex: $1561 / 6 = 260$, $765 / 9 = 85$
- 10 Perform any digit Division. Display only Remainder.**
Ex: $1561 / 6 = 1$, $765 / 9 = 0$