Name- Rutuja Manoj Kasar class- TE- div- A eto Roll no- 65

Assignment - 09

Aim - Write an application Raspherry
-Pi/Beagleboard tp control
the operation of a hardware
simulated lift elevator.

Software - Raspbion as (IDLE)

Hardware modules
Raspberry Pi beagle

Push buttons (2ty-8)

Seven segment display

Leds (2ty-4)

Monitor

Safety Perecaution ->

per steps given.
Power supply.

Procedure - Write the program as algorithm

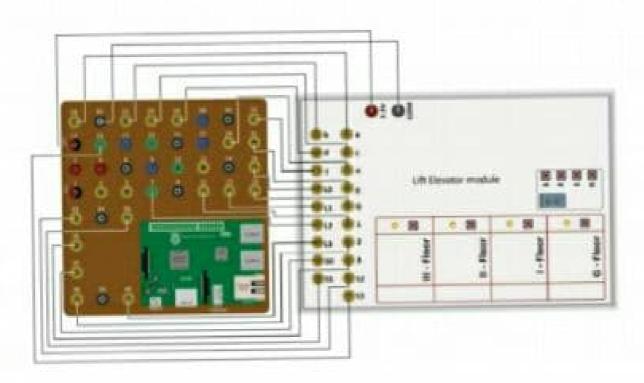
Save the program.

Run code using Run module

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Interface diagram:





Observation observe the output on teas and Seven Segment Display * interloring till Flevator module with Rasphers P1-3 Import RPLEPTO as GRID Import lime Floor Bullon +37 Floor Bullon - 37 Floor Bullion : 37. FLOOR BUILDO + 37 ES & TOTI 1111 Bullon : 15 Lill Button : 11 till Bullon = 38 IIII aution = 36 ## GPIO Setup for the 1801 Floor Ledo = 16 From Led 1 = 13 Floor 18d.2 = 7 Floor led 3 "49 + spro Selup for the seven segment display Seg A Pin = 18 Sey B Pin = 21 504 C Pin = 14 9.64 D Pin + 26 Seg E Pin = 25 5 eg F pin = 32

5 cy 6 pin = 31

Gera Schwarings (Forse)

GPID Selup (Floor Bullon D. GPID IN)
GPID Selup (Floor Bullon I. GPID IN)
GPID Selup (Floor Bullon 2. GPID IN)
GPID Selup (Floor Bullon 3. GPID IN)

GPTO SCHUP CHILL BULLOND, GPTO IN)

GPTO SCHUP CHILL BULLON 2, GPTO IN)

GPTO SCHUP CHILL BULLON 2, GPTO IN)

GPTO SCHUP CHILL BULLON 3, GPTO IN)

GPIO Selup (Floor Led). GPIO OUT) # FLOOR 1
GPIO Selup (Floor Led). GPIO OUT) # FLOOR 2
GPIO Selup (Floor Led). GPIO OUT) # FLOOR 3
GPIO Selup (Floor Led). GPIO OUT | # FLOOR 9

GPIO Selup (Sey Apio, GPIO OUT)

GPIO SELUP (Seg & Pio, GPIO OUT)

digit ar = [0,0,0,0,0,0] digit 0 = [1,1 1.1.1.0] digit 2 = [0,2,1.0,0,0,0] digit 2 = [1,1.0.1,1.0.1] digit 3 = [1,1.0.1,1.0.0,1]

```
while True:
                 if (GPIO. input (Floor Bullono) = True).
                   GPIO OUIPUL (FLOOR Ledo, 2)
                  Print "o" The second of the se
                                                                                                    THE RESIDENCE OF THE PARTY OF T
          digdisp (digito)
             lime sleep (1)
          GPTO OUIPUL (Floor led o, a)
          time sleep (3)
                                             THE RESERVE THE PARTY OF THE PA
            while True 19 19 19 19 19 19
     if (GPTO. input ( will Button 1 ) = = True ):
     Priot floor ONE
       digdisp (digit o)
   lime sleep (1)
       digdise (digita)
break Same 200 DISHARD BULLETING
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