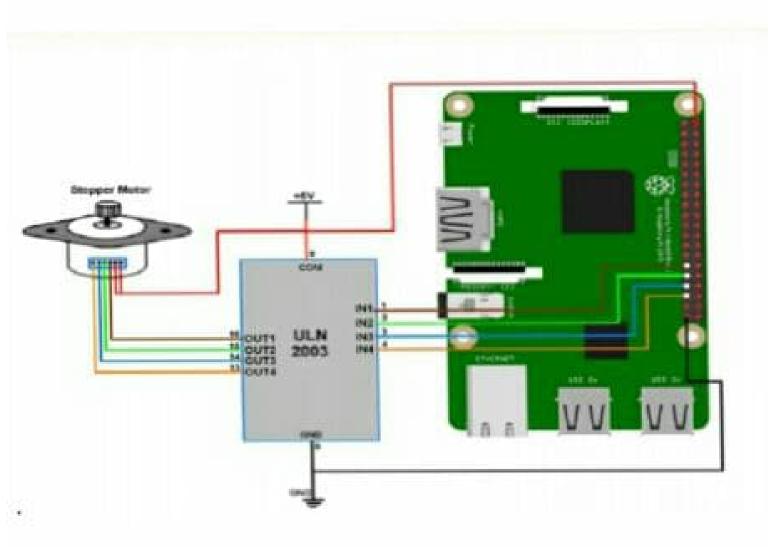
Name-Rutuja Manoj Kasaro TE-div-A Roll no. - 65 Assignment No. - 07 Title -> Write an application Raspherry Pi/ Beagle to control the operation of stepper motor. Theory -> Stepper motor -> In stepper motor, as the name itself says, the rotation of shaft of stepper motor in here we will be using the most popular one that is unipolar stepper motor. There are 40 GPIO olf pins in the Raspberry Pi2. But out of 40 only 26 GPIO pins can be programmed with special GPIO put aside. We have only 17 GPIO remaining. Each of these is GPIO pin can deliver the stepper mare at 15 mA current



```
Sumple progress =
 Bylhon program
Stepper Motor interlucing with Ruspherry Pi
import RM GPTO 05 GPTO
from time import steep
Impath Sys War Or Falling
++ assign GPTO Pins for motor
Chalar_channel = (29,31,33,35)
GPTO SETWINING CEUISE)
GPTO Seimade (GPTO BOARD)
th for defining more than a FRIO channel of
inpul | output use
GPIO-SELUP (MOJOT_Chancel, GPIO.OUT)
motor - direction = input ( select motor direction
 a = anticlochwise , c = clackwise)
while True:
train
if (motor_direction = = 'c');
print (motor running clockwise to')
GPTO OUTPUT ( mater _ channel, (GPTO. HIGH , GPTO LOW
    GPIO. HTEH))
Steep (0.02)
GPTO-OUTPUT ( motor - channel ( GPJO. HIGH, GPJa Low
    Geralaw))
Steep (01)
 erit (motor direction == u)
 print (mater running on 11-clockwise 10)
```

# press Chitch for keyboard interrup.

Except keyboard Interrup.

# query for selling motor direction or exit.

Motor - direction = input C' Select motor direction

a = anticlokwise, C = clackwise at 9 = exit. )

# Check for exit

It Cmotor direction = = '2')

print C'motor Stopped')

Sys. exit(0)

Conclusion -

of Stepper motors using python with Ruspheny Pi