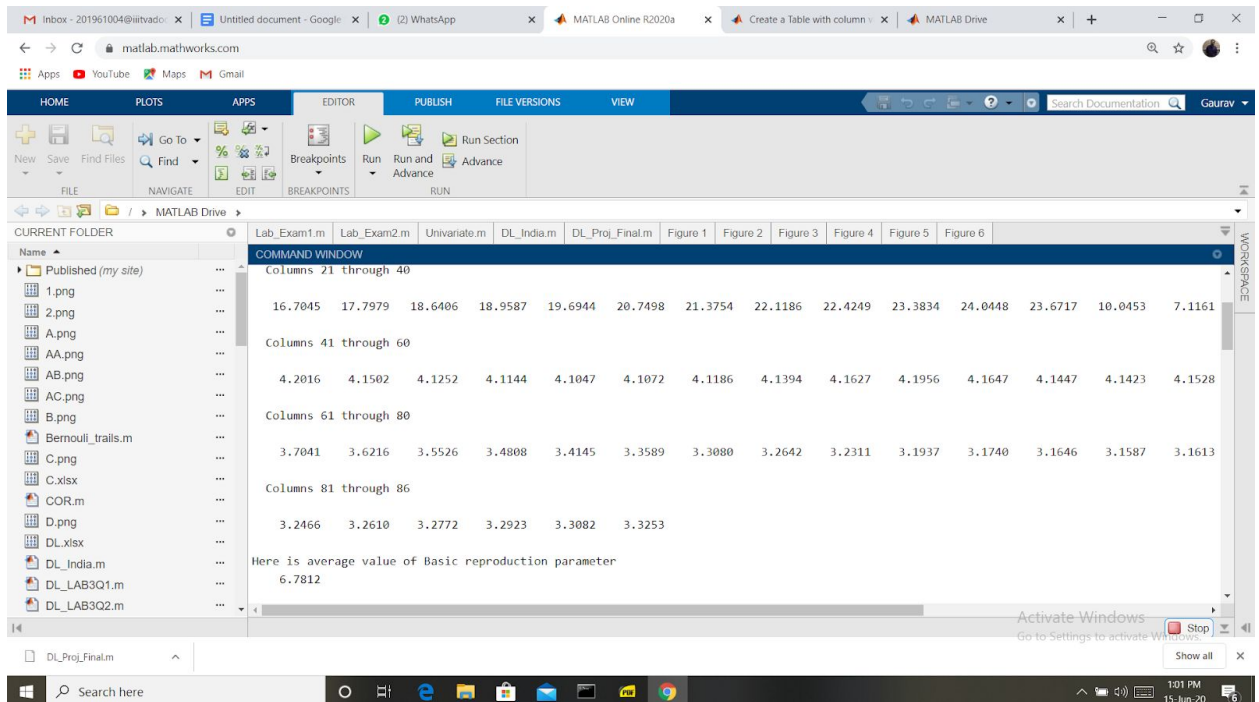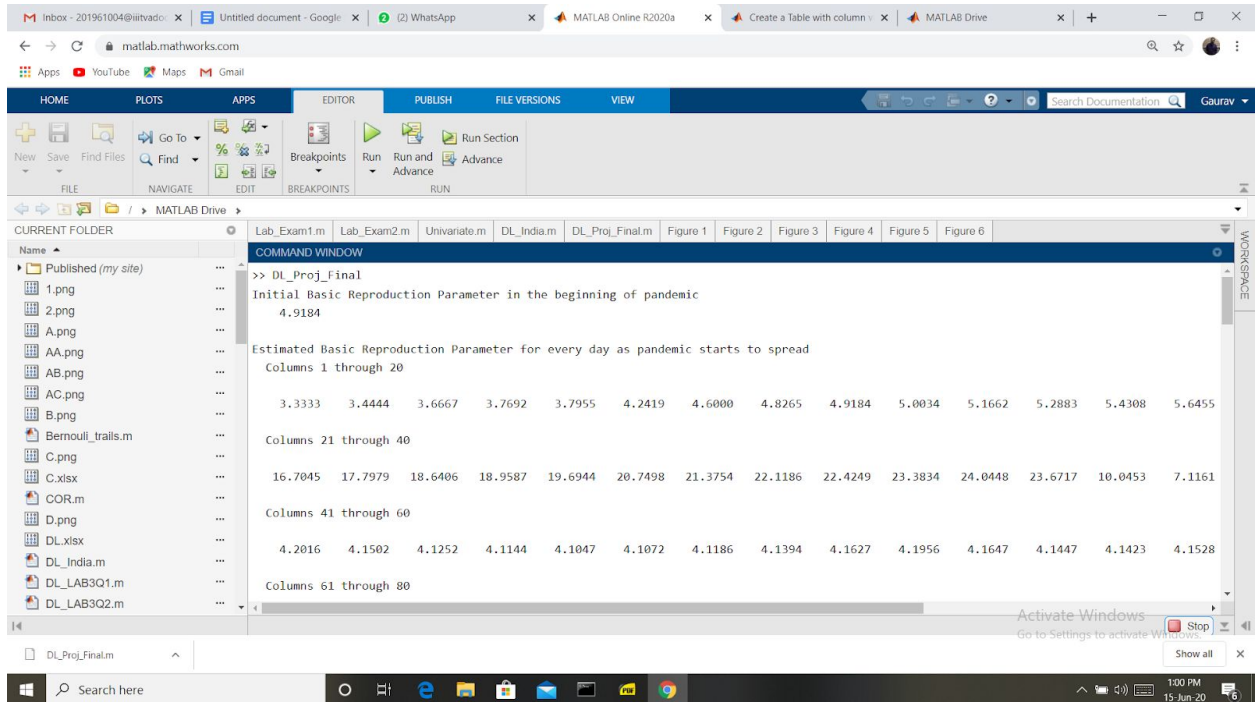# CORONA CASE PREDICTOR IN DELHI

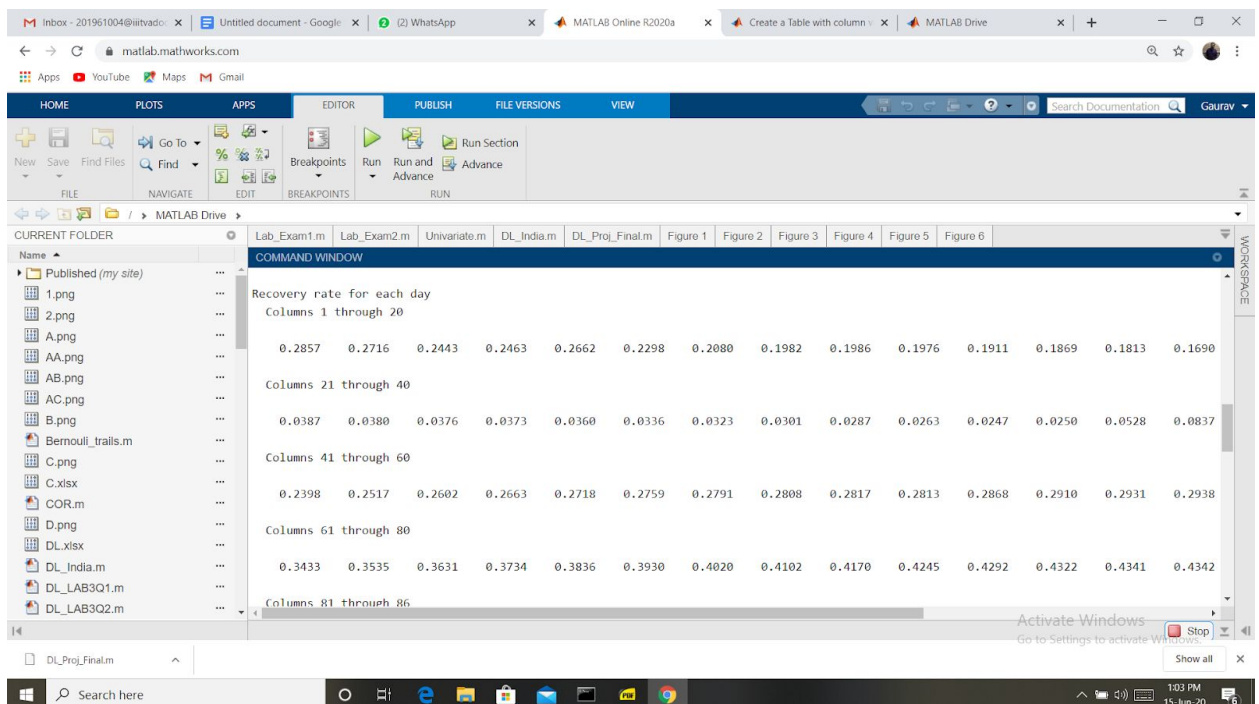**RESULTS:**

1. Basic Reproduction Parameter
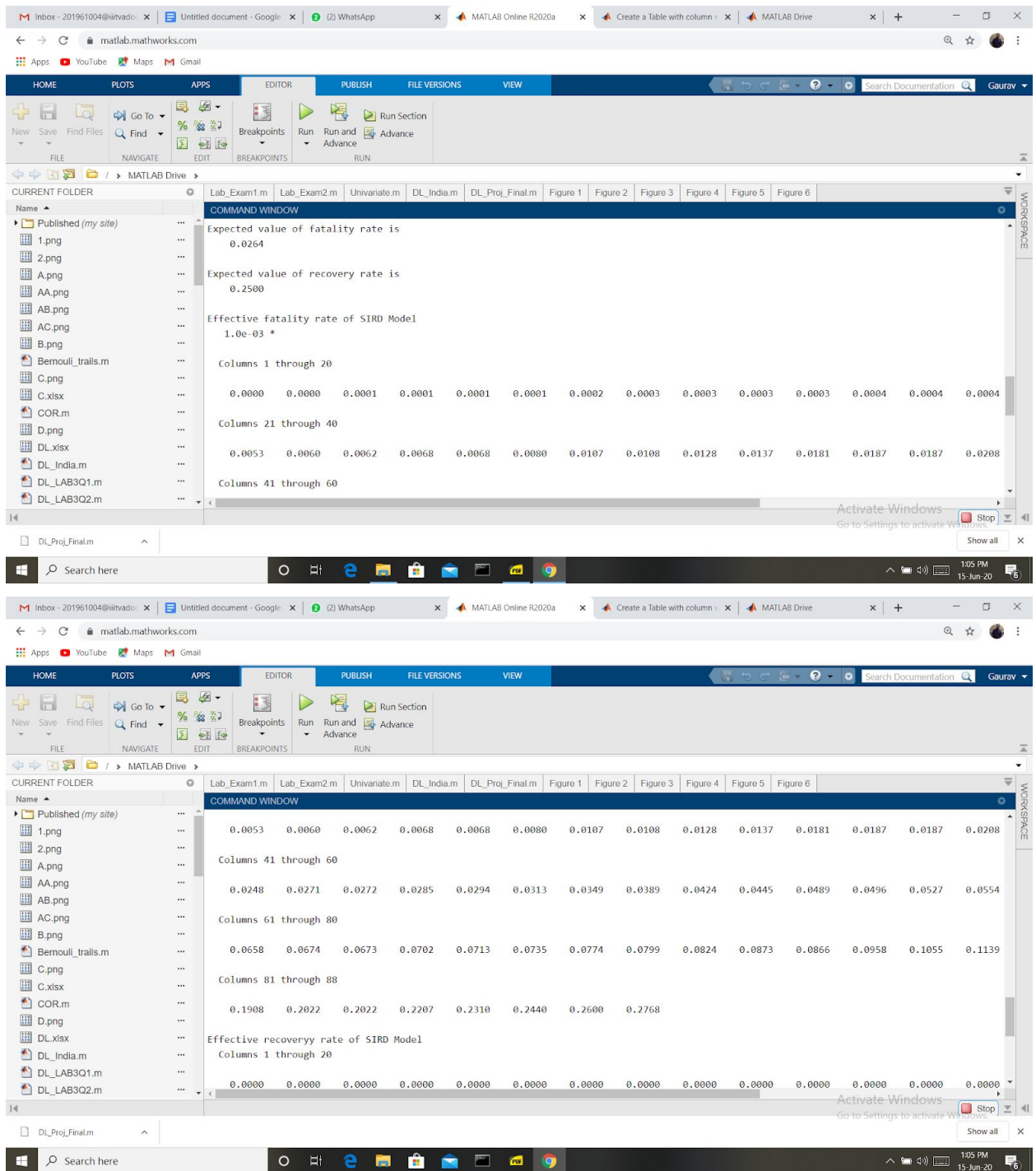
2. Fatality rate


```
Fatality rate for each day
  Columns 1 through 20

    0.1429    0.1358    0.1221    0.1084    0.0878    0.0635    0.0524    0.0475    0.0443    0.0419    0.0390    0.0370    0.0351    0.0363

  Columns 21 through 40

    0.0151    0.0146    0.0139    0.0143    0.0141    0.0142    0.0145    0.0153    0.0165    0.0171    0.0175    0.0181    0.0191    0.0198

  Columns 41 through 60

    0.0198    0.0193    0.0190    0.0187    0.0184    0.0180    0.0175    0.0169    0.0164    0.0158    0.0151    0.0146    0.0142    0.0137

  Columns 61 through 80

    0.0136    0.0139    0.0141    0.0143    0.0145    0.0147    0.0150    0.0155    0.0159    0.0162    0.0166    0.0168    0.0174    0.0179

  Columns 81 through 86
```

3. Recovery rate for each day


```
Recovery rate for each day
  Columns 1 through 20

    0.2857    0.2716    0.2443    0.2463    0.2662    0.2298    0.2080    0.1982    0.1986    0.1976    0.1911    0.1869    0.1813    0.1690

  Columns 21 through 40

    0.0387    0.0380    0.0376    0.0373    0.0360    0.0336    0.0323    0.0301    0.0287    0.0263    0.0247    0.0250    0.0528    0.0837

  Columns 41 through 60

    0.2398    0.2517    0.2602    0.2663    0.2718    0.2759    0.2791    0.2808    0.2817    0.2813    0.2868    0.2910    0.2931    0.2938

  Columns 61 through 80

    0.3433    0.3535    0.3631    0.3734    0.3836    0.3930    0.4020    0.4102    0.4170    0.4245    0.4292    0.4322    0.4341    0.4342

  Columns 81 through 86
```

4. Effective fatality rate and mortality rate(SIRD model)


```
Expected value of fatality rate is
    0.0264

Expected value of recovery rate is
    0.2500

Effective fatality rate of SIRD Model
  1.0e-03 *

  Columns 1 through 20

    0.0000    0.0000    0.0001    0.0001    0.0001    0.0001    0.0002    0.0003    0.0003    0.0003    0.0003    0.0004    0.0004    0.0004

  Columns 21 through 40

    0.0053    0.0060    0.0062    0.0068    0.0068    0.0080    0.0107    0.0108    0.0128    0.0137    0.0181    0.0187    0.0187    0.0208

  Columns 41 through 60
```



```
    0.0053    0.0060    0.0062    0.0068    0.0068    0.0080    0.0107    0.0108    0.0128    0.0137    0.0181    0.0187    0.0187    0.0208

  Columns 41 through 60

    0.0248    0.0271    0.0272    0.0285    0.0294    0.0313    0.0349    0.0389    0.0424    0.0445    0.0489    0.0496    0.0527    0.0554

  Columns 61 through 80

    0.0658    0.0674    0.0673    0.0702    0.0713    0.0735    0.0774    0.0799    0.0824    0.0873    0.0866    0.0958    0.1055    0.1139

  Columns 81 through 88

    0.1908    0.2022    0.2022    0.2207    0.2310    0.2440    0.2600    0.2768

Effective recoveryy rate of SIRD Model
  Columns 1 through 20

    0.0000    0.0000    0.0000    0.0000    0.0000    0.0000    0.0000    0.0000    0.0000    0.0000    0.0000    0.0000    0.0000    0.0000
```
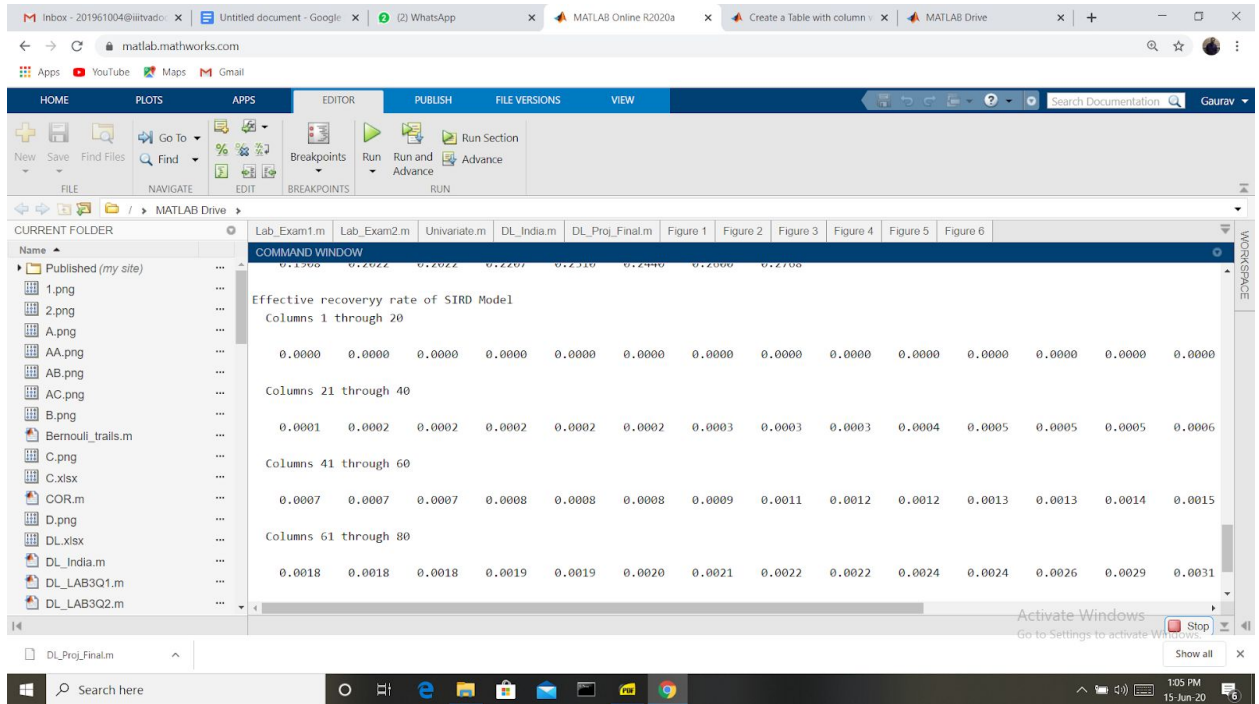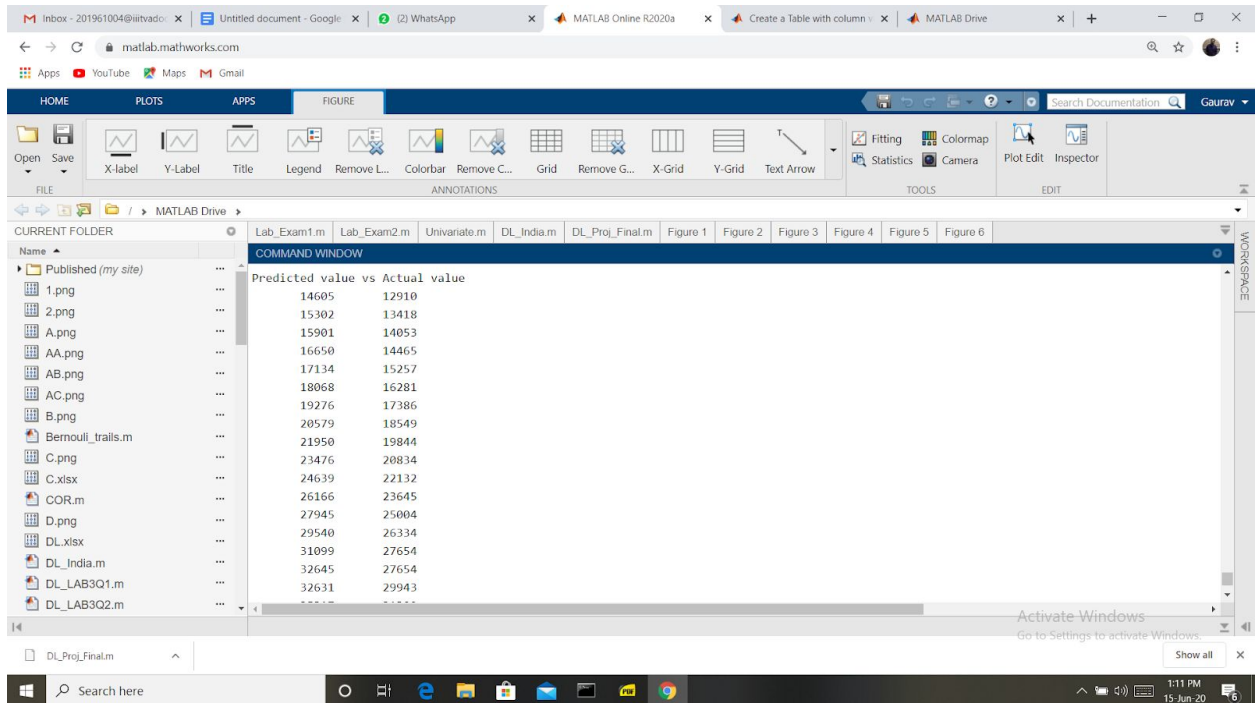
5. Entered value for the day=103
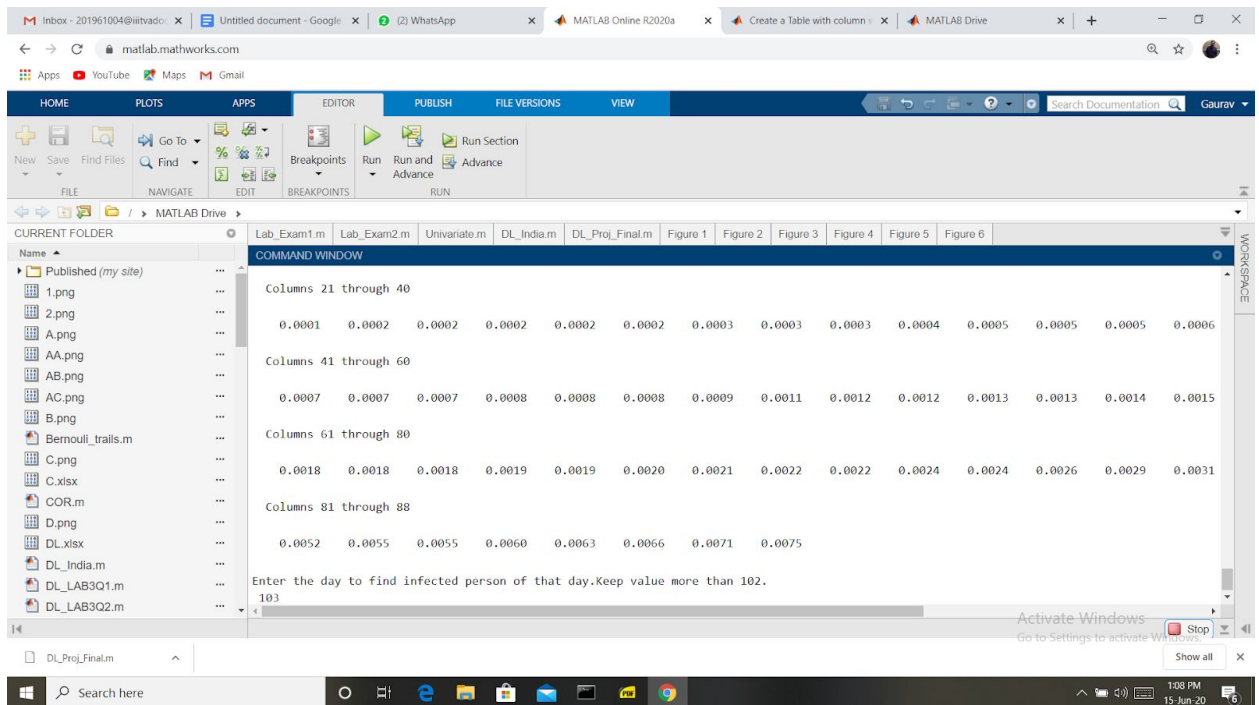
6. Infected persons on that day=45833
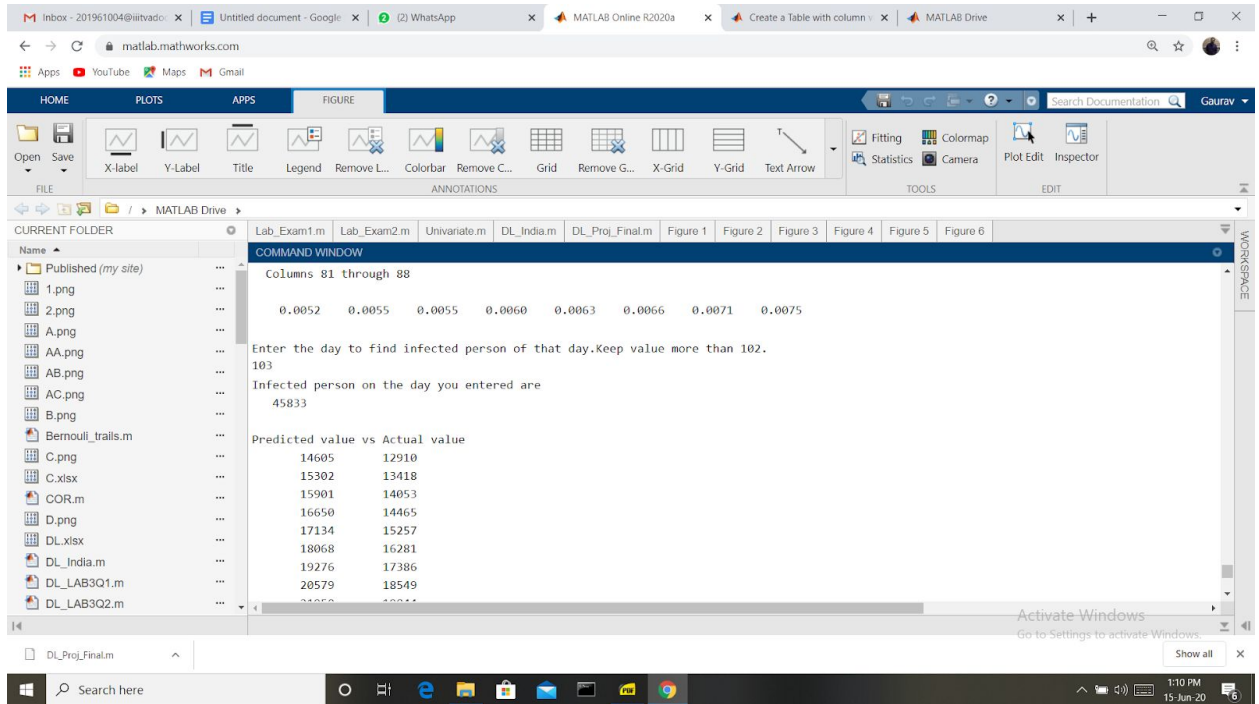
7. Predicted value vs Actual value for last 20 days.

```
16650        14465
17134        15257
18068        16281
19276        17386
20579        18549
21950        19844
23476        20834
24639        22132
26166        23645
27945        25004
29540        26334
31099        27654
32645        27654
32631        29943
35317        31309
36911        32810
38661        34687
>>
```