**1a)**

Text, calendar

Description automatically generated

Text

Description automatically generated

**1b)**

Text

Description automatically generated

**1c)**

Text

Description automatically generated

**Running time for 16\*16 matrix: 710682300**

**1d)**

**Graphical user interface, text, application, email

Description automatically generated**

**Running time for 64\*64 matrix: 41852245100**

**41852245100-721160200**= 41,131,084,900= which is approximately 57 times bigger.

**1e)**

**Graphical user interface, text, application

Description automatically generated**

**Running time for 16\*16 matrix with square\_matrix\_multiply: 94400**

438752600-94400=438,658,200= 4,646=>> **square\_matrix\_multiply is** 4,646 times faster.

**1f)**

**Graphical user interface, text, application

Description automatically generated**

**Running time for 64\*64 matrix with strassen\_matrix\_multiply: 24331202400**

**Running time for 64\*64 matrix with square\_matrix\_multiply: 3456100**

24331202400-3456100= 24,327,746,300**= square\_matrix\_multiply is 7,039 times faster.**