Ex.No: Date:

**Telegraph/Telephone Lines-Determination Of**

**Wavelength of the Line**

**Aim:**

To write program for Telegraph/Telephone Lines-Determination of Wavelength of the

Line using SCILAB.

**Software required:**

* SCILAB version 6.0.1

**Program:**

**//** Wavelength of the Line

clc;

clear;

disp("T.masthan 191612076");

Resistance\_R=10;

Capacitance\_C=0.008\*(10^-6);

length\_l=60;

Rt=Resistance\_R\*length\_l;

Ct=Capacitance\_C\*length\_l;

frequency\_f=1600;

w=2\*%pi\*frequency\_f;

beta=sqrt((w\*Rt\*Ct)/2);

wavelength=(2\*%pi)/beta;

W=(fix(wavelength\*100)/100);

printf("Wavelength of line = %f meters",W);

Output

**Result:**

Thus, the program was verified and calculated using SCILAB was successfully.