International Islamic University Chittagong Department of Computer Science & Engineering(CSE)

Course Code : EEE-1222  
Course Title : Electronics Sessional  
Lab Report : 07  
Experiment Name : Introduction to Op-Amp Circuits.  
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Semester : 2nd  
Section : 2BM  
Date of Submission : 30.12.2020

**Experiment Name:** Introduction to Op-Amp Circuits.

**Objective:** From this report we can learn that how to get a Full wave rectifier from through a correct design circuit.

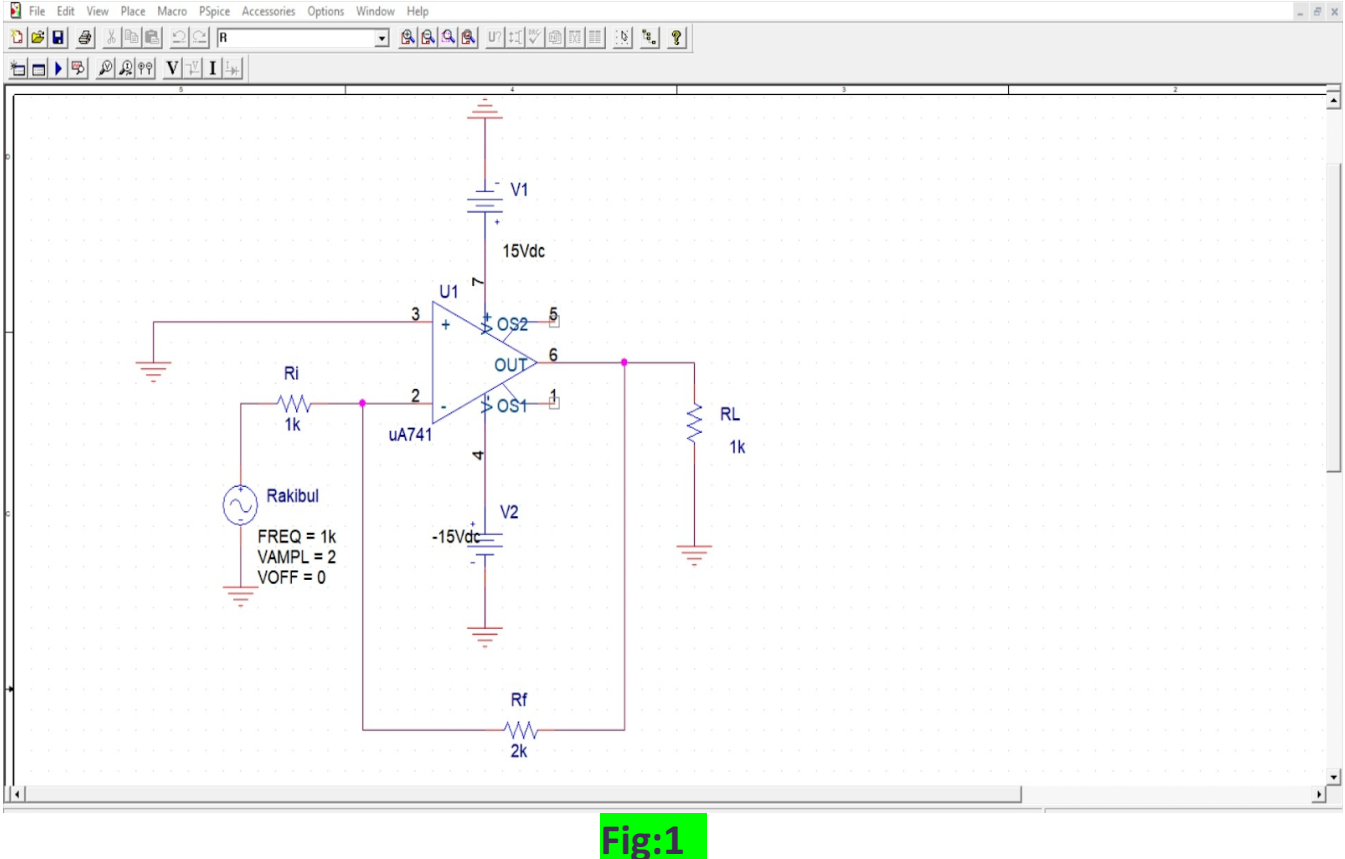
**Circuit Design:**

**Schematic Version:**

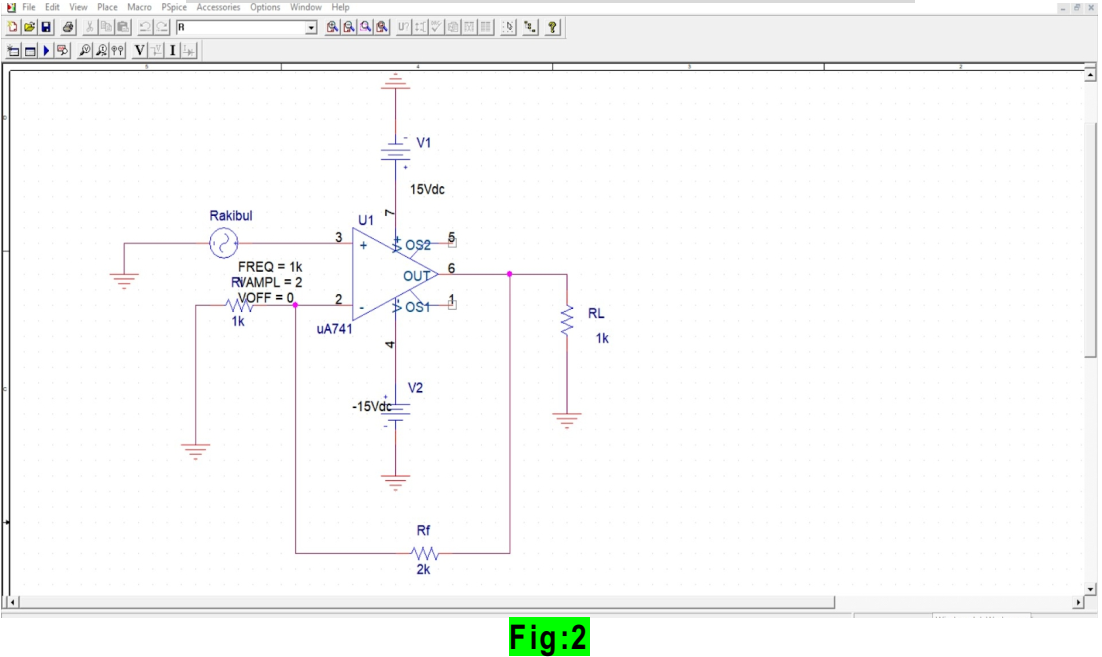
**Circuit design**

**Inverting Amplifier**

RR



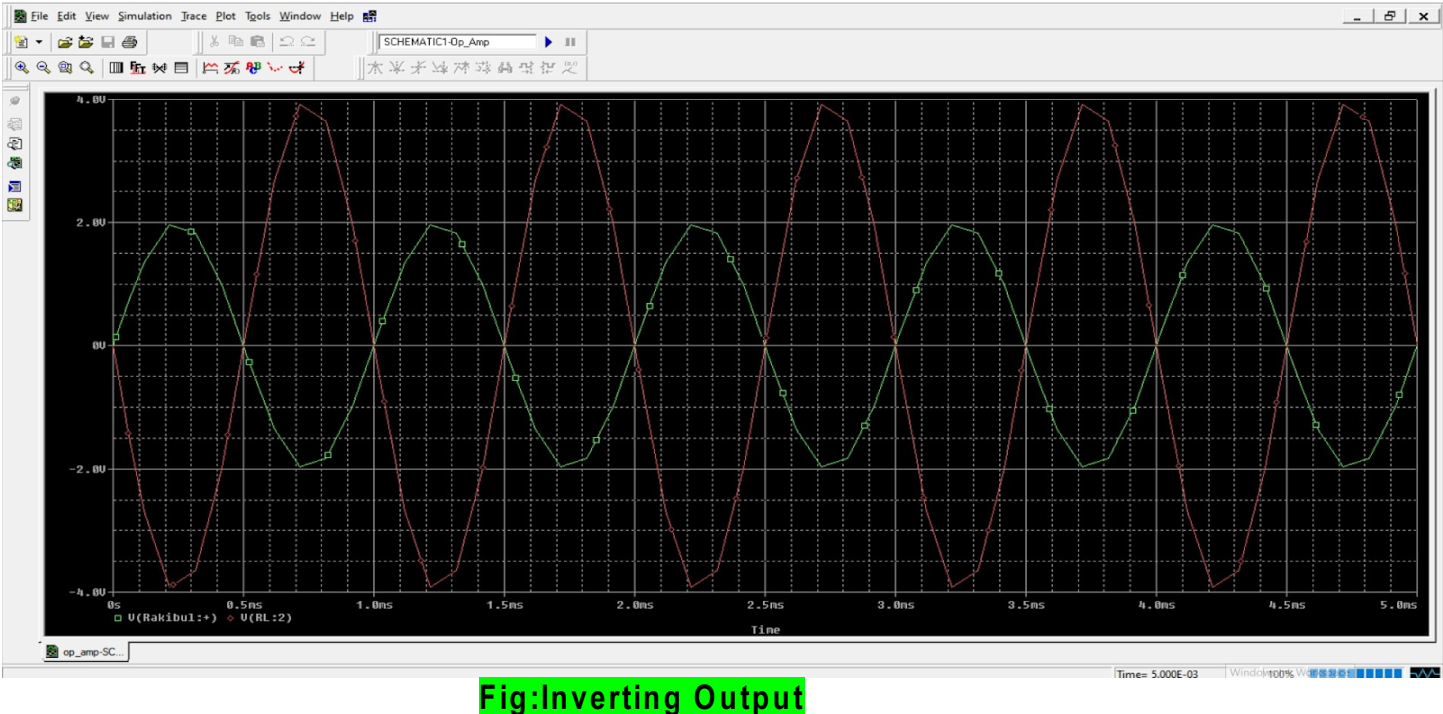
**Non-Inverting Amplifier**



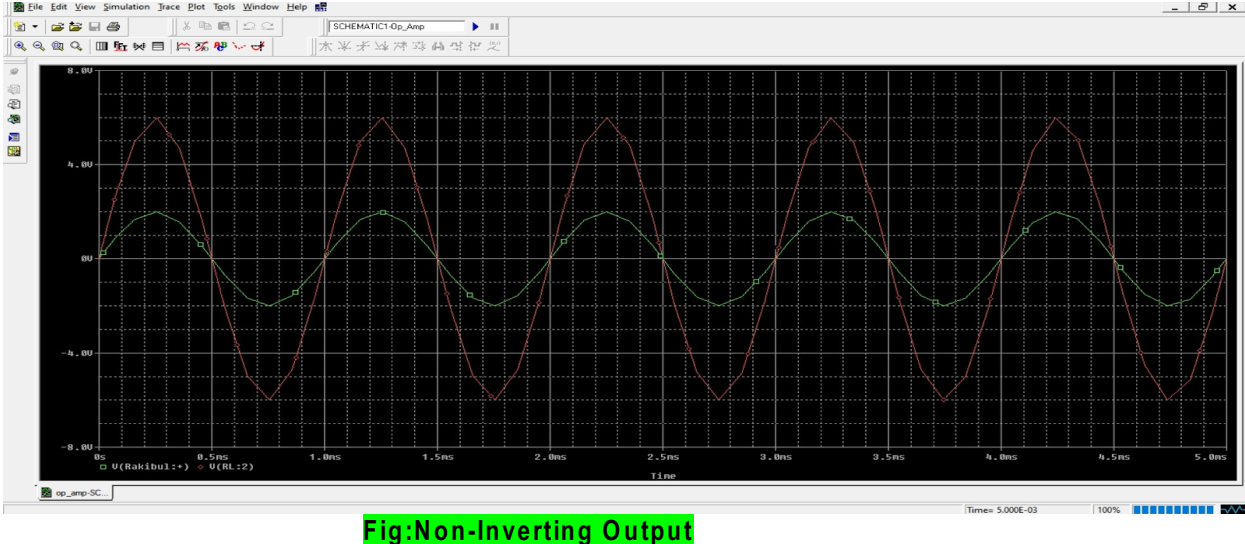
**Graph**

**Input and Output:**

**Inverting Amplifier**Here in the inverting amplifier circuit ,  
Vin = 2V ,  
Rf = 2k ,  
Ri = 1k ,  
Vout = - (Rf / Ri) x Vin  
= - ( 2 / 1 ) x 2  
= - 4



**Non-Inverting Amplifier**Here in the non - inverting amplifier circuit ,  
Vin = 2V ,  
Rf = 2k ,  
Ri = 1k ,  
Vout = ( 1 + ( Rf / Ri ) ) x Vin  
= ( 1 + 2 / 1 ) x 2  
= 3 . 2  
= 6



**Discussion:** From the PSpice software I can design a diagram by studying of Op-Amp circuit.