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1ST YEAR OF MASTER'S DEGEREE IN
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Installation de l'environnement de travail
TP-01

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TP-01

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Contents

Chapter 1

Installation de l'environnement de travail.

1.1 Installation de Matlab 2010b ou version plus récente.

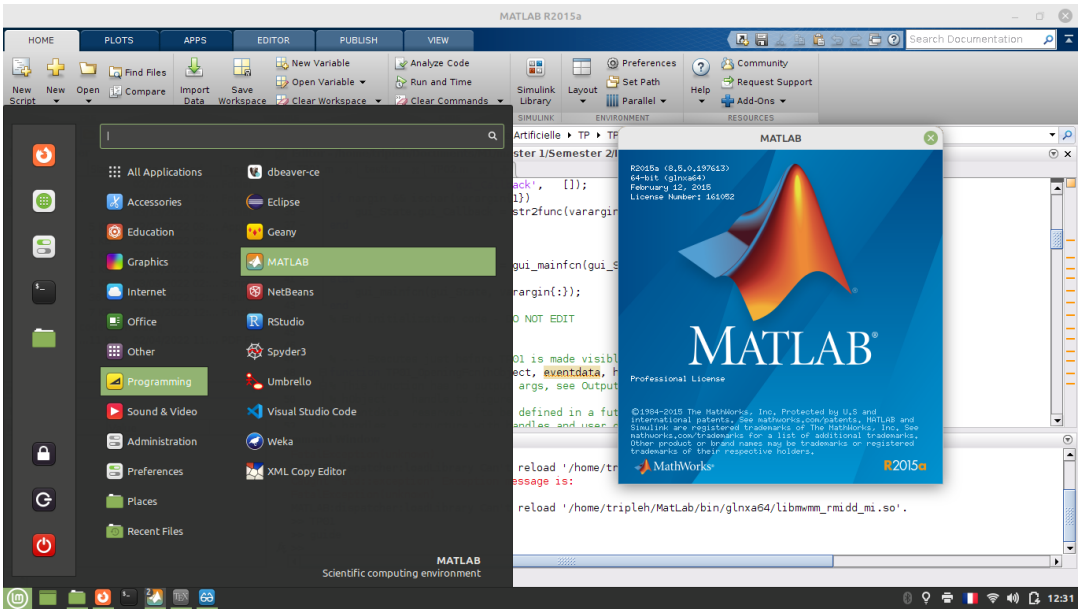

FIGURE 1.1: Matlab

- Working Environment
  - **Machine :** LENOVO IdeaPad S210, Intel Celeron 1037U, 2GB DDR3L
  - **OS :** Linux Mint 20.3 Una
  - **Kernel :** 5.4.0-100-generic x86_64 bits
  - **MATLAB :** R2015 v8.5.0.197613

Chapter 2

Exercice :

2.0.1 Sur Matlab faire l'exemple suivant :

```
% commentaire
>> x=1 ;
>> y=1 :20 ; % vecteur( ou tableau) de 1 a 20 avec pas de
    1.
>> y=1+sqrt(x)/2 ;
>> plot(x,y) ;
>>bar(x,y) ;
>>pie(x,y) ;
```

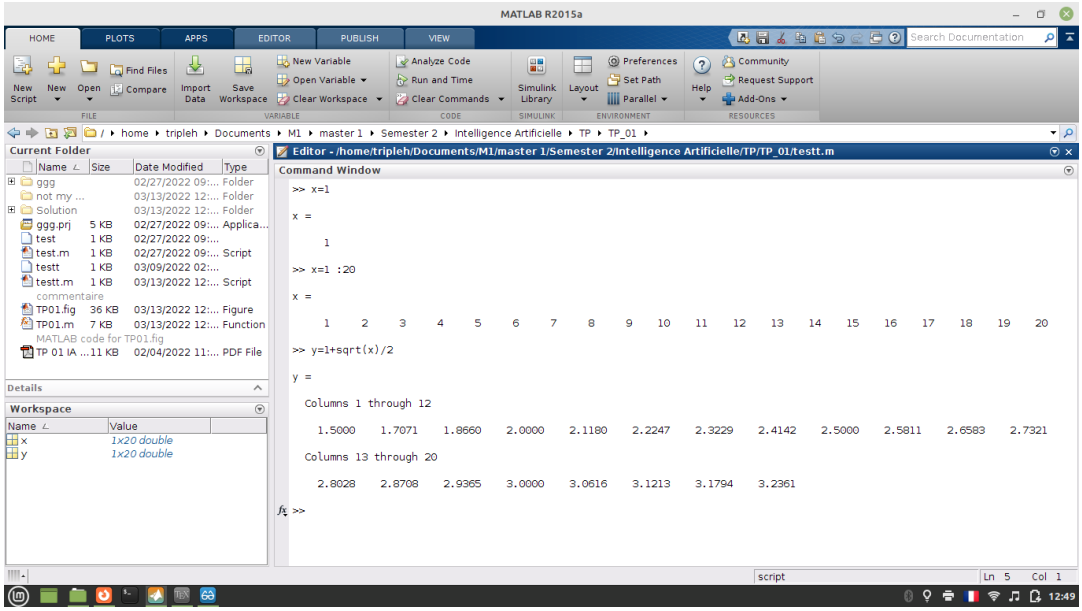

FIGURE 2.1: Matlab

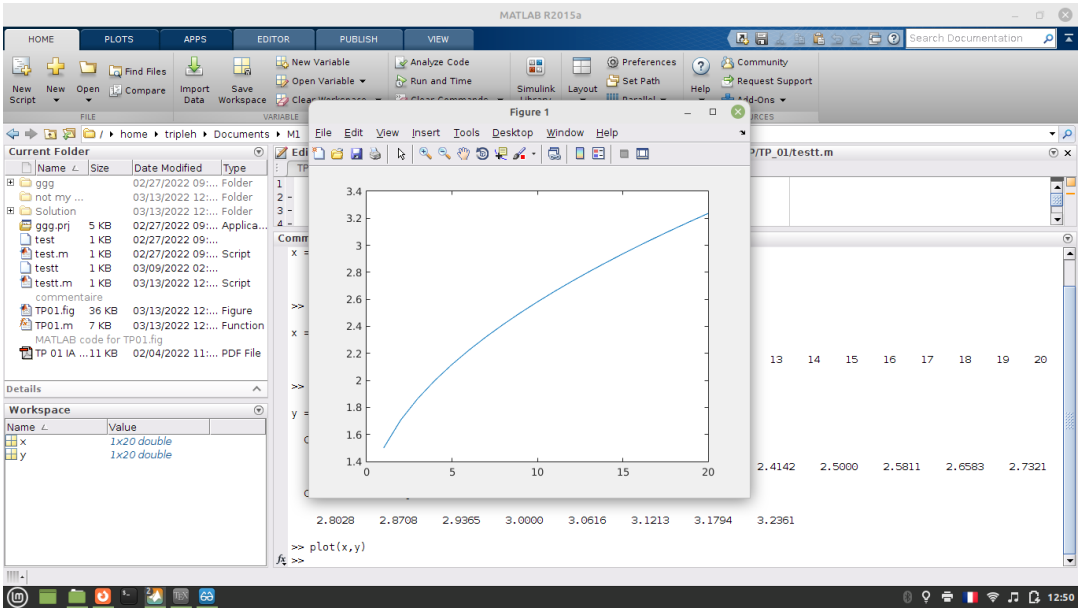

FIGURE 2.2: Plot graph

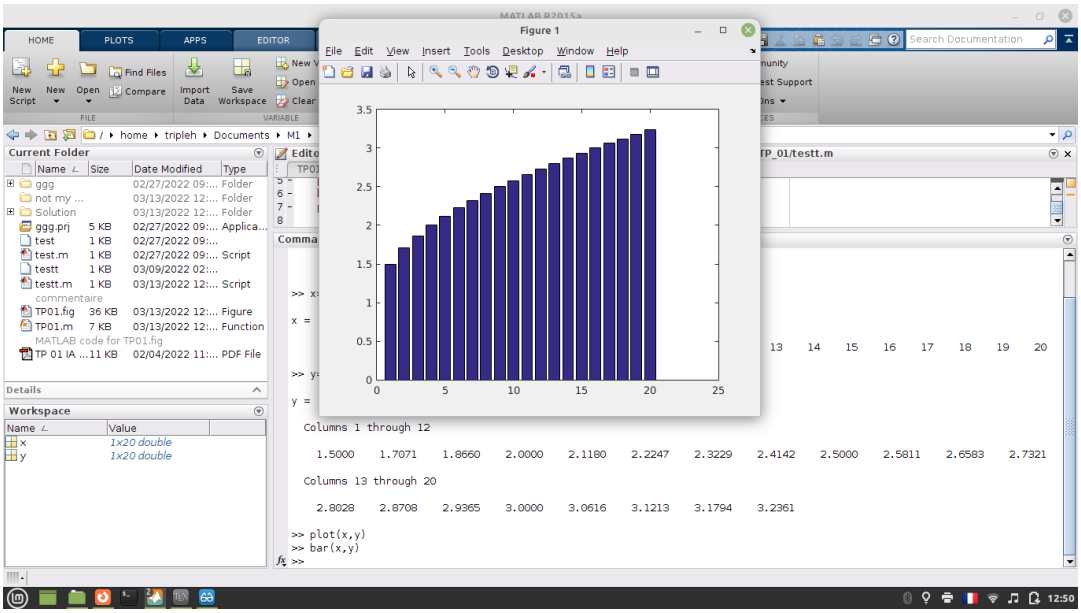

FIGURE 2.3: Bar chart

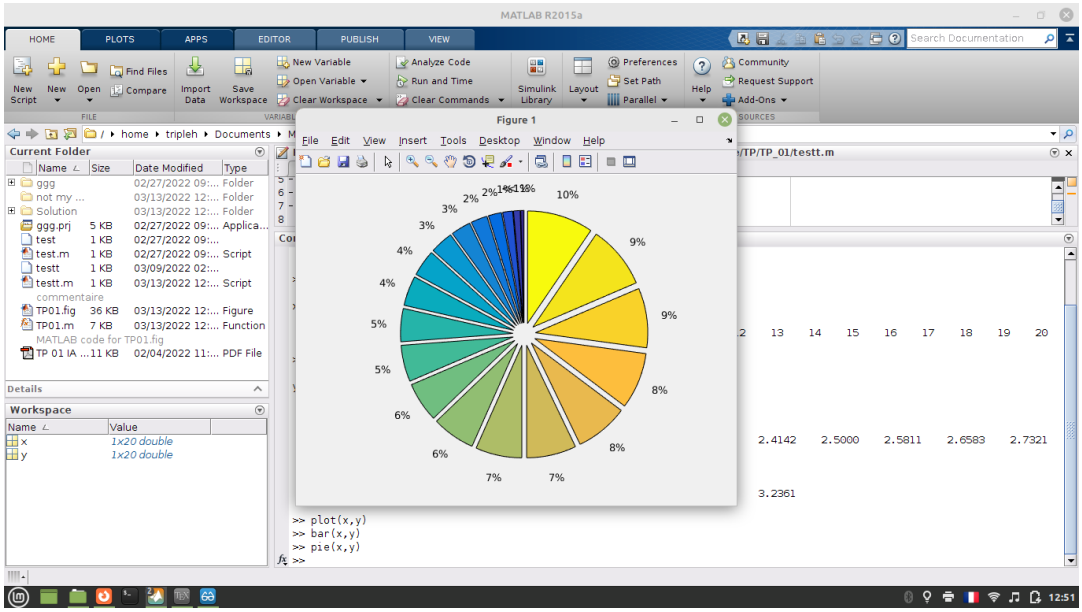

FIGURE 2.4: Pie chart

2.0.2 générer un script qui regroupe les instructions de l'exemple 1.

Creating a script named testt.m that contains the following :

```
8   prompt = ' What is the value of x? ';
9   x = input(prompt);
10  z = x : x*5;
11  y = 1+sqrt(z)/2;
12  plot(z,y);
```

after running the script we get the following :

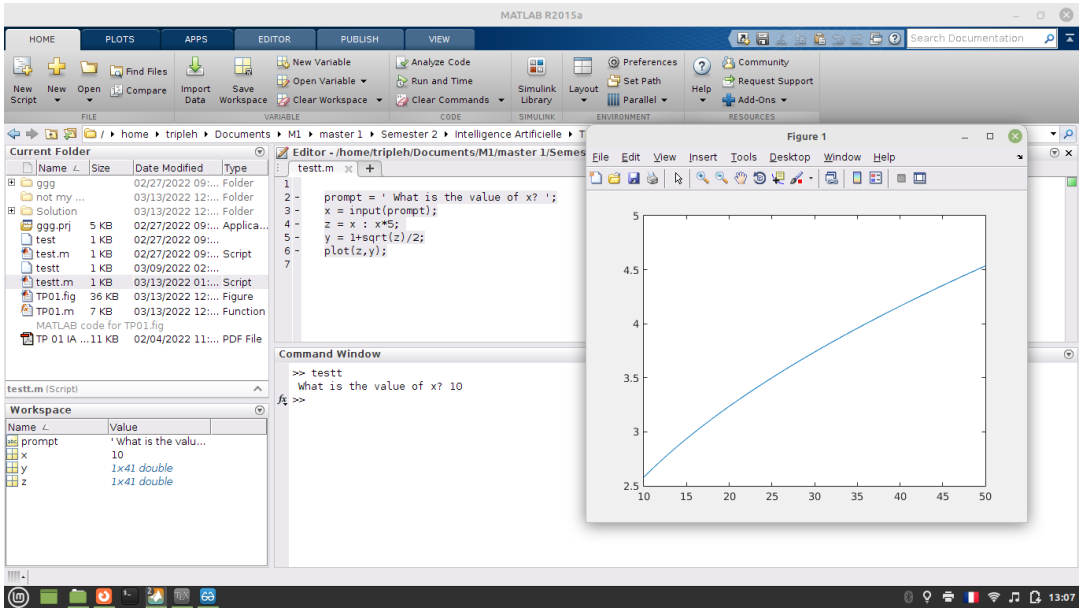

FIGURE 2.5: Input prompt

2.0.3 générer une interface graphique pour le script de la question 2, en utilisant la commande guide de matlab.

Here I have created a simple GUI with the halp of guide for creating graphical interfaces in MATLAB. with 3 buttons each performs an action. the script is saved as **TP01.m** and **TP01.fig**.

Bar Chart

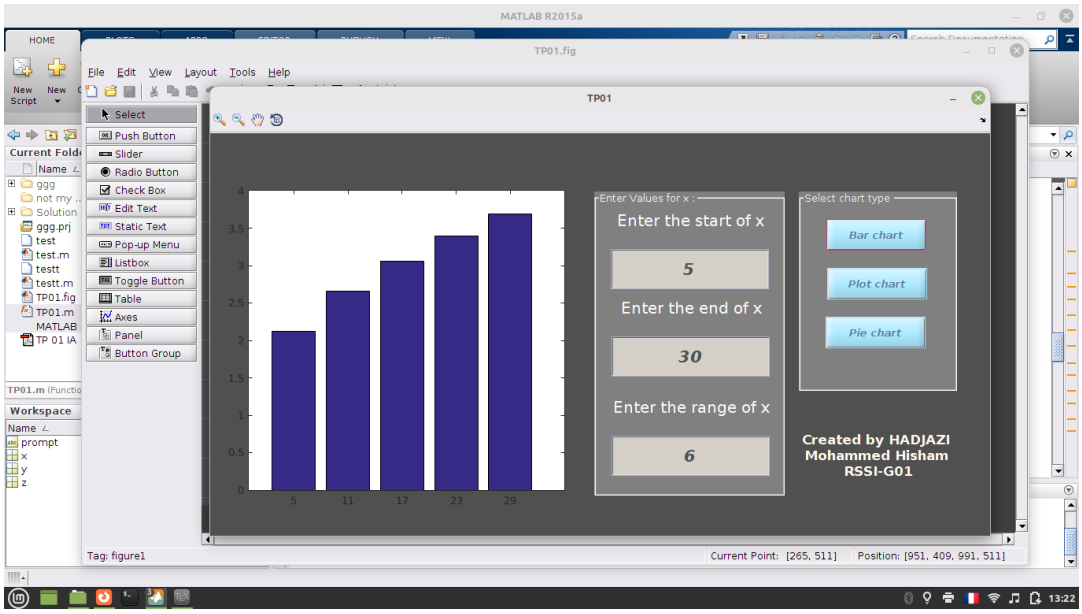

FIGURE 2.6: Bar chart GUI

```
13      function btnbar_Callback(hObject, eventdata, handles)
14      start = str2double(get(handles.input1 , 'string'));
15      endd = str2double(get(handles.input2 , 'string'));
16      range = str2double(get(handles.input3 , 'string'));
17      x = start:range:endd;
18      y = 1 + sqrt(x)/2;
19      axes(handles.disp)
20      bar(x,y);
```

Pie Chart

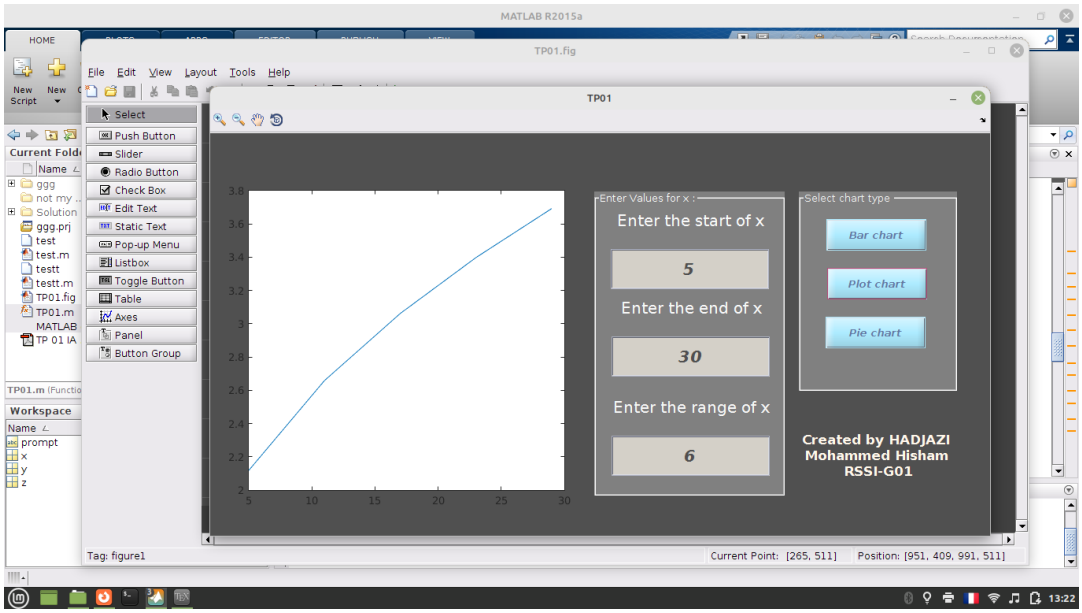

FIGURE 2.7: Pie chart GUI

```
21 function btnpie_Callback(hObject, eventdata, handles)
22 start = str2double(get(handles.input1 , 'string'));
23 endd = str2double(get(handles.input2 , 'string'));
24 range = str2double(get(handles.input3 , 'string'));
25 x = start:range:endd;
26 y = 1 + sqrt(x)/2;
27 axes(handles.disp)
28 pie(x,y);
```

Plot Graph

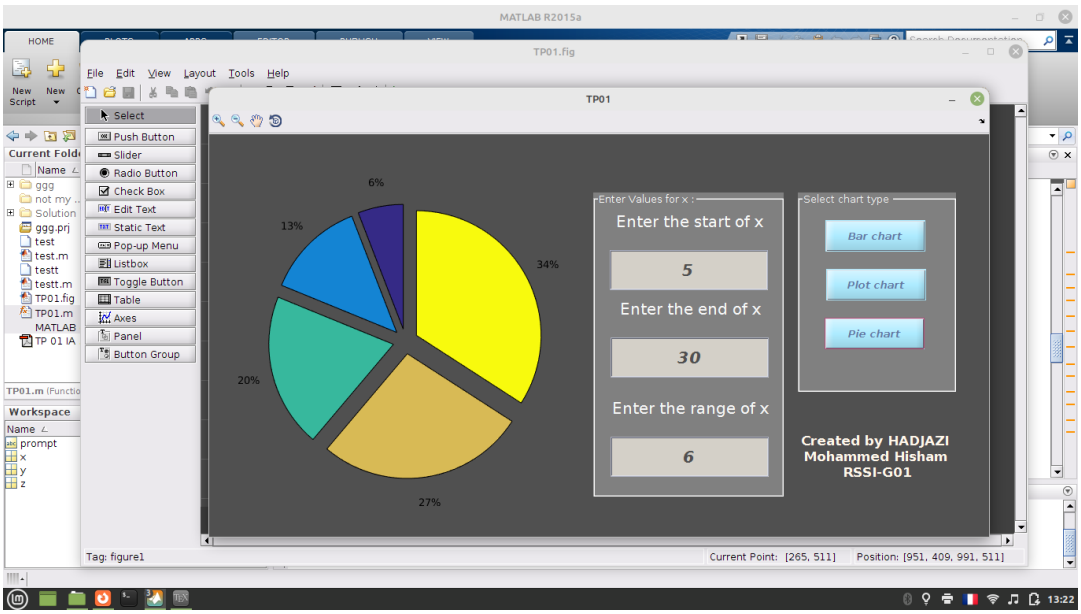

FIGURE 2.8: Plot graph GUI

```
function btnplot_Callback(hObject, eventdata, handles)
start = str2double(get(handles.input1 , 'string'));
endd = str2double(get(handles.input2 , 'string'));
range = str2double(get(handles.input3 , 'string'));
x = start:range:endd;
y = 1 + sqrt(x)/2;
axes(handles.disp)
plot(x,y);
```