Machine Learning
Home work #1

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Program/Semester: SE5

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Task 1

Installed conda integrated base python env to powershell.

Command >> **conda info**

```
(base) PS C:\Users\ALI> conda info

     active environment : base
    active env location : C:\Users\ALI\anaconda3
            shell level : 1
       user config file : C:\Users\ALI\.condarc
 populated config files : C:\Users\ALI\.condarc
          conda version : 4.12.0
    conda-build version : 3.21.8
         python version : 3.9.12.final.0
       virtual packages : __win=0=0
                          __archspec=1=x86_64
       base environment : C:\Users\ALI\anaconda3  (writable)
      conda av data dir : C:\Users\ALI\anaconda3\etc\conda
  conda av metadata url : None
           channel URLs : https://repo.anaconda.com/pkgs/main/win-64
                          https://repo.anaconda.com/pkgs/main/noarch
                          https://repo.anaconda.com/pkgs/r/win-64
                          https://repo.anaconda.com/pkgs/r/noarch
                          https://repo.anaconda.com/pkgs/msys2/win-64
                          https://repo.anaconda.com/pkgs/msys2/noarch
          package cache : C:\Users\ALI\anaconda3\pkgs
                          C:\Users\ALI\.conda\pkgs
                          C:\Users\ALI\AppData\Local\conda\conda\pkgs
       envs directories : C:\Users\ALI\anaconda3\envs
                          C:\Users\ALI\.conda\envs
                          C:\Users\ALI\AppData\Local\conda\conda\envs
               platform : win-64
             user-agent : conda/4.12.0 requests/2.27.1 CPython/3.9.12 Windows/10 Windows/10.0.19044
          administrator : False
             netrc file : None
           offline mode : False
```
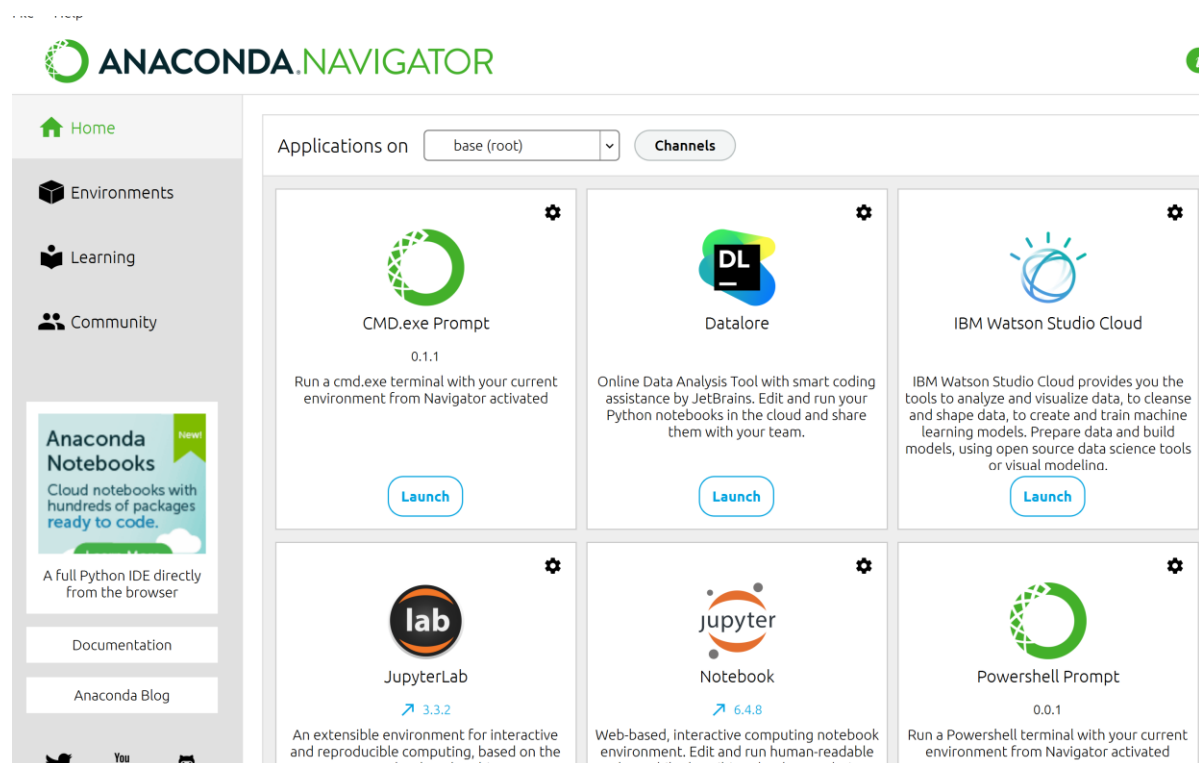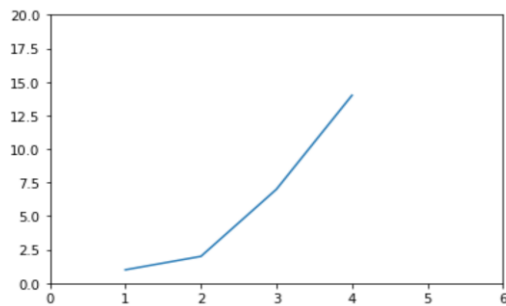
Task 2

Run the script in jupyter notebook

```
import matplotlib.pyplot as plt
plt.plot([1,2,3,4], [1,2,7,14])
plt.axis([0, 6, 0, 20])
plt.show()
```
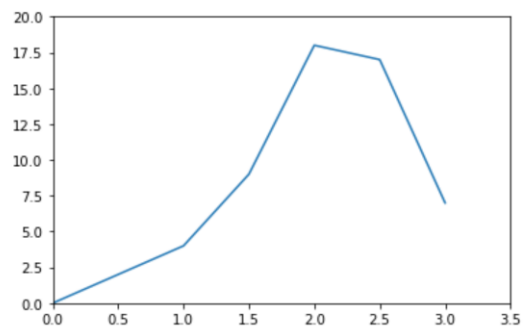

Task 3

Use Matplotlib to create a figure of your choice in IPython.

Following Code was used to graph

```
import matplotlib.pyplot as plt
plt.plot([0,1,1.5,2,2.5,3.0], [0,4,9,18],17,7)
plt.axis([0, 6, 0, 20]) plt.show()
```

Task4:

Made a GitHub student account with the user name Shehzad-sudo