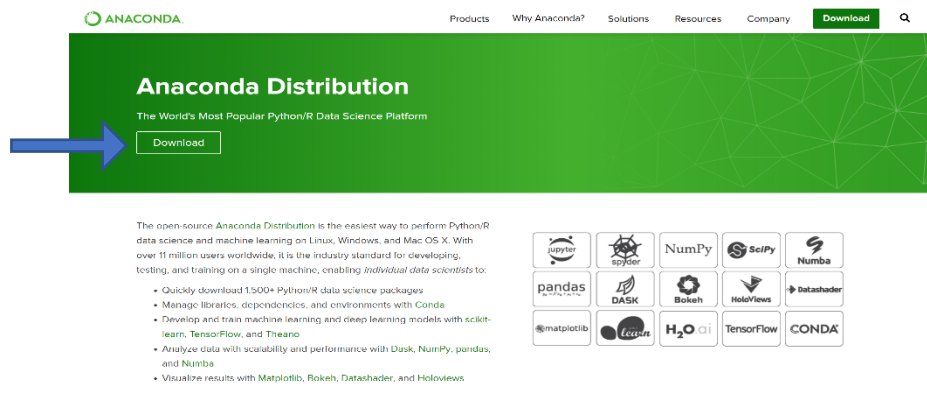
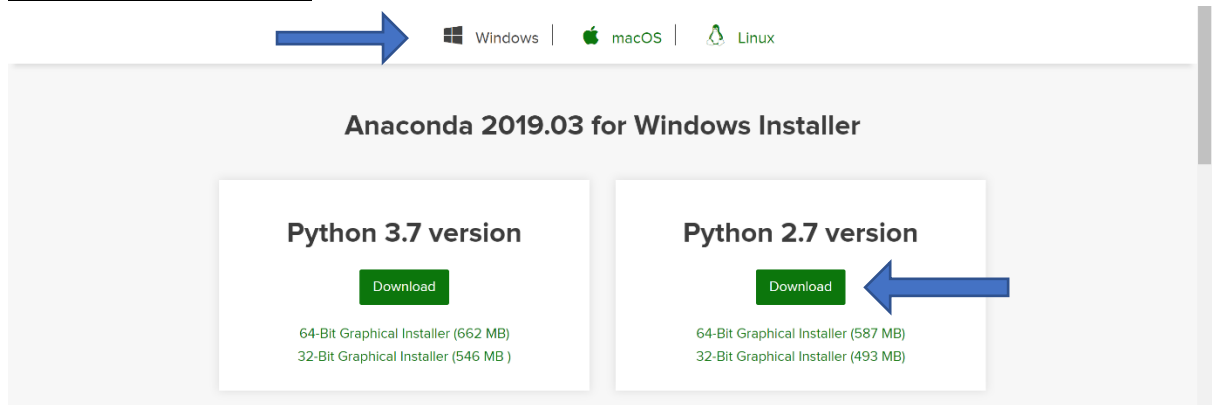


User Guide

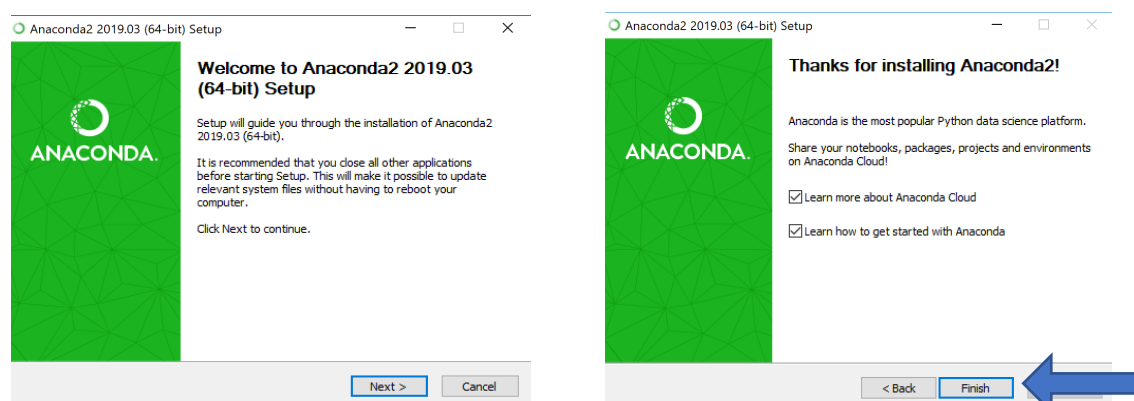
- 1) Install Anaconda (“Anaconda Distribution”). Available at: <https://www.continuum.io/>
- 2) Click the “Download” button.



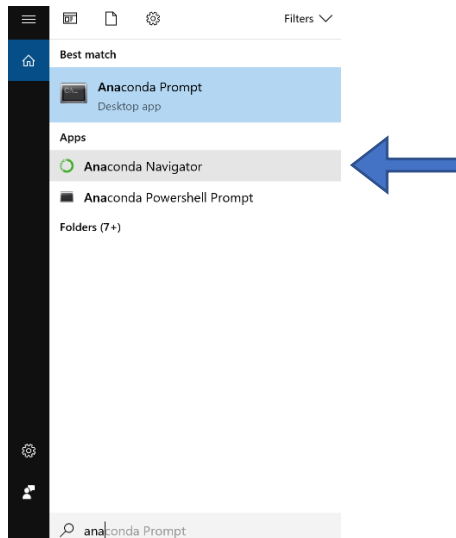
- 3) For Window user, select Window and click the “Download” Button under **Python 2.7 Version.**



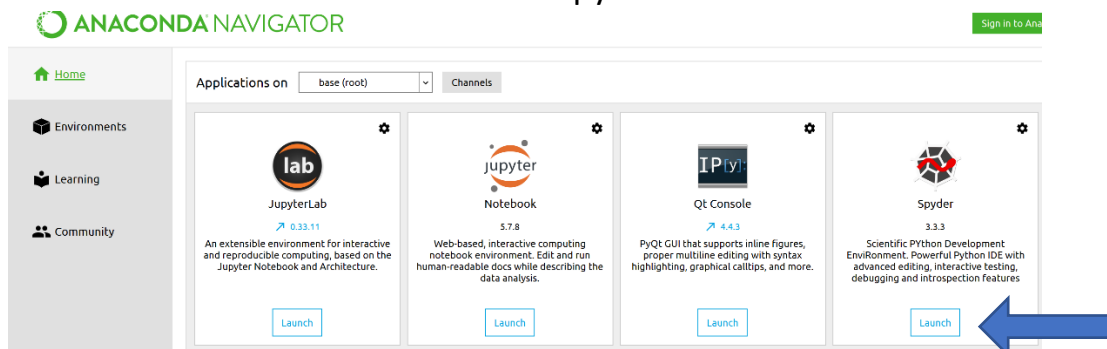
- 4) Follow the guideline of the Anaconda setup to install the app. Click “Finish”, once the installation is completed.



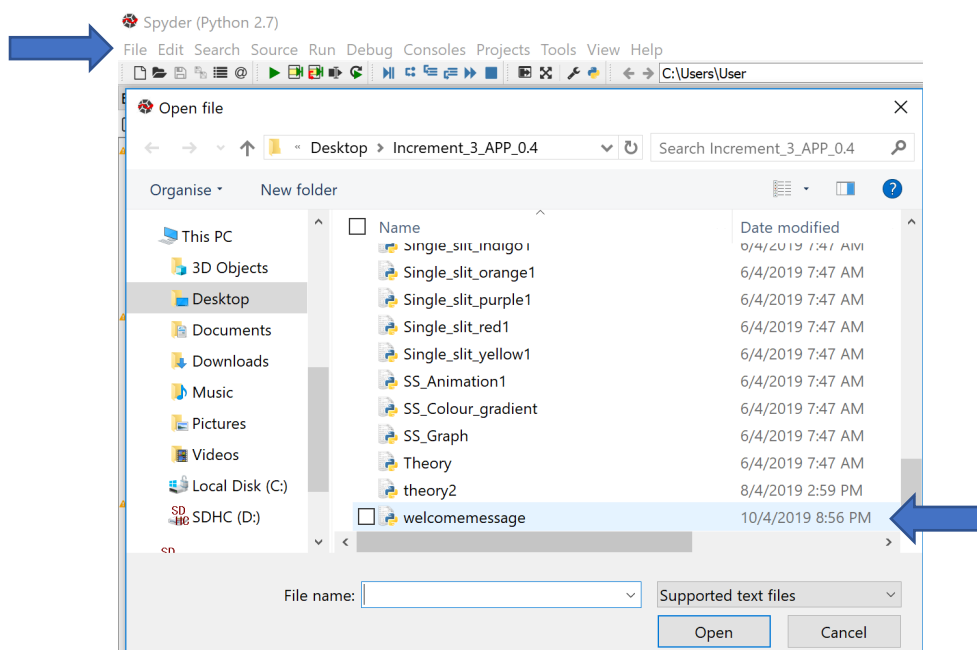
5) Type “Anaconda Navigator” in the search bar and launch it.



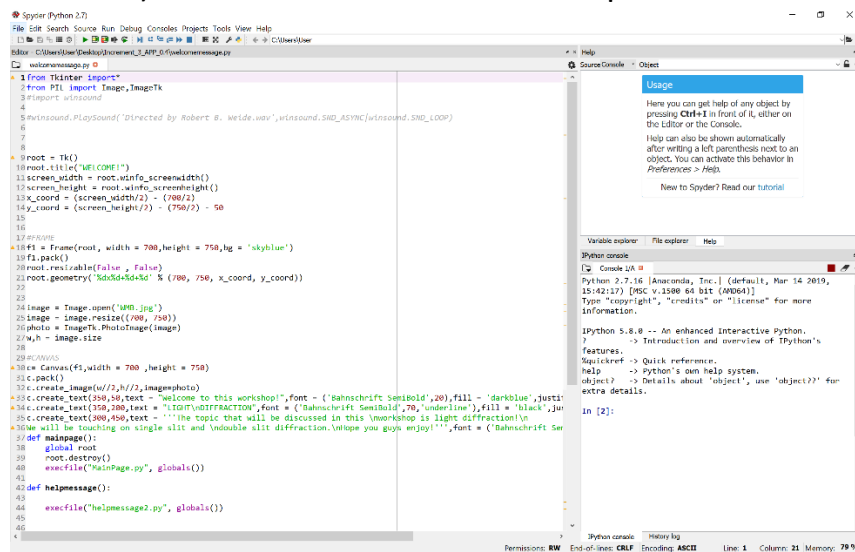
6) Click the “Launch” button to launch Spyder.



7) Click “Open file” under “File” and select “welcomemessage.py” to launch the application.



8) Press “Ctrl” and “F5” button on the keyboard at the same time (Default Shortcut) to execute the file once it is opened as shown below.



```

1 from Tkinter import *
2 from PIL import Image, ImageTk
3 import winsound
4
5 winsound.PlaySound("Directed by Robert B. Weide.wav", winsound.SND_ASYNC|winsound.SND_LOOP)
6
7
8
9 root = Tk()
10 root.title("WELCOME!")
11 screen_width = root.winfo_screenwidth()
12 screen_height = root.winfo_screenheight()
13 x_coord = (screen_width/2) - (700/2)
14 y_coord = (screen_height/2) - (750/2) - 50
15
16
17 #FRAME
18 f1 = Frame(root, width = 700, height = 750, bg = 'skyblue')
19 f1.pack()
20 root.resizable(False, False)
21 root.geometry("%dx%d+%d+%d" % (700, 750, x_coord, y_coord))
22
23
24 image = Image.open("WDP.jpg")
25 image = image.resize((700, 750))
26 photo = ImageTk.PhotoImage(image)
27 w,h = image.size
28
29 #CANVAS
30 cw = Canvas(f1, width = 700, height = 750)
31 cw.pack()
32 c.create_image(w/2, h/2, image=photo)
33 c.create_text(350, 50, text = "Welcome to this workshop!", font = ('Bahnschrift SemiBold', 20), fill = 'darkblue', justify = 'center')
34 c.create_text(350, 200, text = "LIGHT DIFFRACTION", font = ('Bahnschrift SemiBold', 70, 'underline'), fill = 'black', justify = 'center')
35 c.create_text(350, 450, text = "The topic that will be discussed in this workshop is light diffraction!\nWe will be touching on single slit and double slit diffraction. Hope you guys enjoy!", font = ('Bahnschrift SemiBold', 16), fill = 'black', justify = 'center')
36
37 def mainpage():
38     global root
39     root.destroy()
40     execfile("mainPage.py", globals())
41
42 def helpmessage():
43     global root
44     root.destroy()
45     execfile("helpmessage2.py", globals())
46
47

```

9) Congratulation, the application can now be used. Enjoy!

