# Pre-requisites Done :

* Read and understood basics of Python
* Understood about installation and using python
* Learnt what is module, how it is imported and can be used in the code
* Drawing line, opening a jpeg file

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| S.No | Date | Task | Tasks Done |
| 1 | 02/02/2020 | Draw a rectangle and write text inside it (Exploring Turtle & ImageDraw modules) | * Analyzed the modules Image Draw & Turtle * Drawn a rectangle and wrote text inside it using required methods * Read about manipulating with documents like .docx file using docx module |
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## Draw a rectangle and write text inside it (using Turtle & Image Draw modules)

Analyzed the module ImageDraw module

* Created an empty image \*.jpg file
* Drew a rectangle in that image using ImageDraw module
* Saved the image & using the Image Draw module, inserted the text inside the rectangle (by changing the required dimensions in trial and error manner)
* Added that .jpg file into a .docx document & saved that. (using docx module)

Analyzed & tried with turtle

* Created rectangle by traversing via directions and inserted text inside the rectangle

*Using ImageDraw Module*

import docx

from PIL import Image,ImageDraw

doc = docx.Document()

img = Image.new("RGB", (500, 500),"white")

# create a image draw handle

img1 = ImageDraw.Draw(img)

img1.rectangle((200,125,300,200),fill ="orange", outline = "black",width = 1)

img1.text((210, 150), "CHECK TEXT", fill = "black",align = "center")

img.show()

img.save('C:\\Users\\path \\line.jpg');

doc.add\_picture('C:\\path \\line.jpg');

doc.save('C:\\Users\\goushik\\Desktop\\New folder\\pattern\_printing\_ex.docx');

*Using Turtle :*

from turtle import \*

# Choose Color for rectangle

color("orange")

begin\_fill() # Enabling fill to color the shape

# Traverse in directions, to draw rectangle

forward(300);

right(90)

forward(150)

right(90)

forward(300);

right(90)

forward(150)

right(90)

# End the coloring

end\_fill()

color("BLACK") # Choose Black color to write

begin\_fill()

penup()

forward (150)

#right (45)

left(65)

backward (20)

write("TEXT INSIDE RECTANGLE USING TURTLE", True, align="center")

#write("TEXT", True, align="center")