1. In what modes should the PdfFileReader() and PdfFileWriter() File objects will be opened?

For pdfFileReader() file objects should be opened in rb->read binary mode,whereas for pdffileWriter() file objects should be opened in wb -> write binary mode.

1. From a PdfFileReader object, how do you get a Page object for page 5?

Ans2:- **PdfFileReader** class provides a method called **getPage(page\_no)** to get a page object. Calling getPage(4) will return a Page object for page 5 since page 0 is the first page

from PyPDF2 import PdfFileReader

pdf\_reader = PdfFileReader(file\_path)

for page **in** pdf\_reader.getNumPages():

pdf\_reader.getPage(page)

1. What PdfFileReader variable stores the number of pages in the PDF document?

Ans3:- **getNumPages()** method of **PdfFileReader** class stores the no pages in a PDF document

from PyPDF2 import PdfFileReader

pdf\_reader = PdfFileReader(file\_path)

print(pdf\_reader.getNumPages()) *# Prints the no of pages in a input document*

1. If a PdfFileReader object’s PDF is encrypted with the password swordfish, what must you do before you can obtain Page objects from it?

Ans4:-

If a **PdfFileReader** object’s PDF is encrypted with the password **swordfish** and you're not aware of it. first read the Pdf using the PdfFileReader Class. PdfFileReader class provides a attribute called **isEncrypted** to check whether a pdf is encrypted or not. the method returns true if a pdf is encrypted and vice versa.  
if pdf is encrypted use the **decrypt()** method provided by PdfFileReader class first then try to read the contents/pages of the pdf, else PyPDF2 will raise the following error **PyPDF2.utils.PdfReadError: file has not been decrypted**

from PyPDF2 import PdfFileReader

pdf\_reader = PdfFileReader(file\_path)

if pdf\_reader.isEncrypted: *# to check whether the pdf is encrypted or not*

pdf\_reader.decrypt("swordfish")

for page **in** pdf\_reader.pages:

print(page.extractText()) *# to print the text data of a page from pdf*

1. What methods do you use to rotate a page?

PyPDF2 Package provides 2 methods to rotate a page:

1. **rotateClockWise()** -> For Clockwise rotation
2. **rotateCounterClockWise()** -> For Counter Clockwise rotation

The PyPDF2 package only allows you to rotate a page in increments of 90 degrees. You will receive an AssertionError otherwise.

1. What is the difference between a Run object and a Paragraph object?

The structure of a document is represented by three different data types in **python-Docx**. At the highest level, a Document object represents the entire document. The Document object contains a list of **Paragraph** objects for the paragraphs in the document. (A new paragraph begins whenever the user presses ENTER or RETURN while typing in a Word document.) Each of these Paragraph objects contains a list of one or more **Run** objects.

The text in a Word document is more than just a string. It has font, size, color, and other styling information associated with it. A style in Word is a collection of these attributes. A Run object is a contiguous run of text with the same style. A new Run object is needed whenever the text style changes.

1. How do you obtain a list of Paragraph objects for a Document object that’s stored in a variable named doc?

from docx import Document

doc = Document("sample\_file.docx") *# Path of the Docx file*

print(doc.paragraphs) *# Prints the list of Paragraph objects for a Document*

for paragraph **in** doc.paragraphs:

print(paragraph.text) *# Prints the text in the paragraph*

1. What type of object has bold, underline, italic, strike, and outline variables?

**Run** object has bold, underline, italic, strike, and outline variables. The text in a Word document is more than just a string. It has font, size, color, and other styling information associated with it.

A style in Word is a collection of these attributes. A Run object is a contiguous run of text with the same style. A new Run object is needed whenever the text style changes.

1. What is the difference between False, True, and None for the bold variable?

bold = True *# Style Set to Bold*

bold = False *# Style Not Set to Bold*

bold = None *# Style is Not Applicable*

1. How do you create a Document object for a new Word document?

from docx import Document

document = Document()

document.add\_paragraph("Learn python programming")

document.save('mydocument.docx')

1. How do you add a paragraph with the text 'Hello, there!' to a Document object stored in a variable named doc?

from docx import Document

doc = Document()

doc.add\_paragraph('Hello, there!')

doc.save('hello.docx')

1. What integers represent the levels of headings available in Word documents?

The levels for a heading in a word document can be specified by using the **level** attribute inside the **add\_heading** method. There are a total of 5 levels statring for 0 t0 4. where level 0 makes a headline with the horizontal line below the text, whereas the heading level 1 is the main heading. Similarly, the other headings are sub-heading with their's font-sizes in decreasing order.