**ASSIGNMENT 12**

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

**Answer 1 :**

while using PdfFileReader() , file should be opened in read binary mode ‘ rb ‘

While using PdfFileWriter(), file should be opened in write binary mode ‘ wb ‘

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***Question 2. From a PdfFileReader object, how do you get a Page object for page 5?**

**Answer 2 :**

Using command PdfFileReader.getPage(5)

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**Answer 3 :**

PdfFileReader.numPages that stores the number of pages of PDF document.

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**Answer 4 :**

first - check the file is password protected or not using : pdfReader.is encrypted

second - use password to decrypt that file : pdfReader.decrypt(‘swordfish’)

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**Answer 5 :**

page = pdfReader.getPage(1)

page.rotateClockwise(90)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***Question 6. What is the difference between a Run object and a Paragraph object?**

**Answer 6 :**

Paragraph Object : A document contains multiple paragraphs. A paragraph begins on a new line and contains multiple runs. 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.)

Run Objects : Runs are contiguous groups of characters within a paragraph with the same style

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***Question 7. How do you obtain a list of Paragraph objects for a Document object that’s stored in a variable named doc?**

**Answer 7 :**

In document operation, List of paragraphs objects will be obtained by using command :

doc.paragraphs

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***Question 8. What type of object has bold, underline, italic, strike, and outline variables?**

**Answer 8 :**

Run Objects has text attributes that will be used for style text available in Run Objects by using various font styles. Those are bold, underline, italic, strike, outline.

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**Answer 9 :**

Run Attributes

Runs can be styled using text attributes.

Each attribute can be set to one of three values:

True = True attribute is always enabled, no matter what other styles are applied to the run,

False = False attribute is always disabled

None = None Attribute defaults to whatever the run’s style is set to .

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**Answer 10 :**

import docx

doc = docx.Document()

doc.add\_paragraph(‘ \*\*\*\*\*\*\*\*\*\*\* ’)

doc.save(' \*\*\*\*\*\*.docx')

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**Question 11. How do you add a paragraph with the text 'Hello, there!' to a Document object stored in a variable named doc?**

**Answer 11 :**

import docx

doc = docx.Document()

doc.add\_paragraph('Python Learnings')

doc.save('Python.docx')

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**Question 12. What integers represent the levels of headings available in Word documents?**

**Answer 12 :**

Format of adding headers by using :

doc.heading( ‘ Header 0’ , headerlevel)

Here header level 0 means that header is Main Title Header

and Header Level other than 0 means header are for other Subtitle Headers.

**Example:**

import docx

doc = docx.Document()

doc.add\_heading('Python header', 0)

doc.save('headertext.docx')