

PYTHON ASSIGNMENT – 12

- 1. In what modes should the PdfFileReader() and PdfFileWriter() File objects will be opened?**
- 2. From a PdfFileReader object, how do you get a Page object for page 5?**
- 3. What PdfFileReader variable stores the number of pages in the PDF document?**
- 4. If a PdfFileReader object's PDF is encrypted with the password swordfish, what must you do before you can obtain Page objects from it?**
- 5. What methods do you use to rotate a page?**
- 6. What is the difference between a Run object and a Paragraph object?**
- 7. How do you obtain a list of Paragraph objects for a Document object that's stored in a variable named doc?**
- 8. What type of object has bold, underline, italic, strike, and outline variables?**
- 9. What is the difference between False, True, and None for the bold variable?**
- 10. How do you create a Document object for a new Word document?**

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

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

SOLUTIONS

1. **Opening Modes for PdfFileReader() and PdfFileWriter():**

- Both **PdfFileReader()** and **PdfFileWriter()** objects should be opened in binary mode ('rb' for read, 'wb' for write) when working with PDF files.
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2. **Getting a Page Object for Page 5:**

```
page = pdf_reader.getPage(4) # Note: Page numbering starts from 0
```

3. **PdfFileReader Variable for Number of Pages:**

```
num_pages = pdf_reader.numPages
```

4. **Decrypting a PdfFileReader Object:**

- If a PDF is encrypted with a password, you need to decrypt it by providing the password using the **decrypt(password)** method before accessing Page objects.

```
pdf_reader.decrypt('swordfish')
```

5. **Methods to Rotate a Page:**

- You can use the **rotateClockwise(angle)** and **rotateCounterClockwise(angle)** methods to rotate a page in a **PdfFileWriter** object.

```
page = pdf_writer.getPage(0)
```

```
page.rotateClockwise(90) # Rotate 90 degrees clockwise
```

```
page = pdf_writer.getPage(0)
```

```
page.rotateClockwise(90) # Rotate 90 degrees clockwise
```

6. **Difference between Run and Paragraph Objects:**

- A **Run** object in a Word document is a contiguous run of text with the same style. A **Paragraph** object is a block of text. A paragraph can contain multiple runs with different styles.

7. **Obtaining a List of Paragraph Objects:**

```
paragraphs = doc.paragraphs
```

8. Object with Bold, Underline, Italic, Strike, and Outline Variables:

- The **Run** object in a Word document has these style-related variables.

9. Difference between False, True, and None for Bold Variable:

- **False**: Text is not bold.
- **True**: Text is bold.
- **None**: Use the default bold setting.

10. Creating a Document Object for a New Word Document:

python

```
from docx import Document
doc = Document()
```

11. Adding a Paragraph to a Document Object:

```
doc.add_paragraph('Hello, there!')
```

12. Integers Representing Levels of Headings in Word Documents:

- Heading levels are represented by integers from 1 to 9, where 1 is the highest level (main heading) and 9 is the lowest level (sub-sub-sub-sub-sub-sub-sub-sub-sub-sub-subheading).