

## **Assignment-12**

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

**Ans.**

- ``PdfFileReader()`` should be opened in 'rb' (read binary) mode.
- ``PdfFileWriter()`` should be opened in 'wb' (write binary) mode.

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

**Ans.** You can get a Page object for page 5 by calling:

```
page = pdfReader.getPage(4)
```

(Note: Page numbers are zero-indexed, so page 5 is index 4.)

**3.** What ``PdfFileReader`` variable stores the number of pages in the PDF document?

**Ans.** The ``numPages`` attribute stores the number of pages:

```
num_pages = pdfReader.numPages
```

**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?

**Ans.** You must decrypt the PDF using:

```
pdfReader.decrypt('swordfish')
```

**5.** What methods do you use to rotate a page?

**Ans.** You can use the ``rotateClockwise(degrees)`` and ``rotateCounterClockwise(degrees)`` methods. For example:

```
page.rotateClockwise(90)
```

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

**Ans.**

- A Paragraph object represents a block of text in a Word document.
- A Run object represents a section of text within a paragraph that has the same style (e.g.,

bold, italic).

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

**Ans.** You can get a list of `Paragraph` objects using:

```
paragraphs = doc.paragraphs
```

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

**Ans.** A Run object has the `bold`, `underline`, `italic`, `strike`, and `outline` attributes.

**9.** What is the difference between `False`, `True`, and `None` for the `bold` variable?

**Ans.**

- `False`: The text is not bold.

- `True`: The text is bold.

- `None`: The bold setting is inherited from the style definition.

**10.** How do you create a `Document` object for a new Word document?

**Ans.** You can create a new Word document using:

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

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

**Ans.** You can add a paragraph using:

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

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

**Ans.** The levels of headings are represented by integers from 0 to 9, where 0 is the title, and 1 to 9 represent heading levels.