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

**Ans :**

**PdfFileReader(stream, strict=True, warndest=None, overwriteWarnings=True): It initializes a PdfFileReader object. This operation can take some time, as the PDF stream’s cross-reference tables are read into memory.**

**PdfFileWriter(): This class supports writing PDF files out, given pages produced by another class.**

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

**Ans : To extract text from a page, you need to get a Page object, which represents a single page of a pdf file, from a PdfFileReader object. You can get a page object by calling the getPage() method on a PdfFileReader object and passing it the page number of the page you're interested in.**

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

**Ans : The total number of pages in the document is stored in the numPages attribute of a PdfFileReader object.**

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 : Some PDF documents have an encryption feature that will keep them from being read until whoever is opening the document provides a password. Enter the following into the interactive shell with the PDF you downloaded, which has been encrypted with the password swordfish using pdfReader.decrypt('swordfish')**

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

**Ans : The pages of a PDF can also be rotated in 90-degree increments with the rotate Clockwise() and rotate Counter Clockwise() methods.**

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

**Ans :**

**Run Object: A run is the object most closely associated with inline content; text, pictures, and other items that are flowed between the block-item boundaries within a paragraph.**

**Paragraph Object: Append a run to this paragraph containing text and having character style identified by style ID style. text can contain tab ( \t ) characters, which are converted to the appropriate XML form for a tab.**

**Each Paragraph object also has a runs attribute that is a list of Run objects. Run objects also have a text attribute, containing just the text in that particular run. Let's look at the text attributes in the second Paragraph object, 'A plain paragraph with some bold and some italic'. A document contains multiple paragraphs. A paragraph begins on a new line and contains multiple runs. Runs are contiguous groups of characters within a paragraph.**

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

**Ans : Use doc.paragraphs**

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

**Ans :**

**A Run object has these variables (not a paragraph)**

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

**Ans :**

**For the bold variables, the differences are:**

**True - It is enabled automatically.**

**False - This attribute is always disabled.**

**None - Defaults to whatever the run’s style is set to**

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

**Ans** :

**Call the docx.Document() function.**

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

**Ans :**

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

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

**Ans :**

**The integers 0,1,2,3, and 4.**