**ASSIGNMENT 7:**

**1. What is the name of the feature responsible for generating Regex objects?**

**Ans:** The re. compile () function returns Regex objects.

**2. Why do raw strings often appear in Regex objects?**

**Ans:** Raw strings are used so that backslashes do not have to be escaped.

**3. What is the return value of the search () method?**

**Ans:** The search () method returns Match objects.

**4. From a Match item, how do you get the actual strings that match the pattern?**

**Ans:** The group () method returns strings of the matched text.

**5. In the regex which created from the r'(\d\d\d)-(\d\d\d-\d\d\d\d)', what does group zero cover? Group 2? Group 1?**

**Ans:** Group 0 is the entire match, group 1 covers the first set of parentheses, and group 2 covers the second set of parentheses.

**6. In standard expression syntax, parentheses and intervals have distinct meanings. How can you tell a regex that you want it to fit real parentheses and periods?**

**Ans:** Periods and parentheses can be escaped with a backslash: ., (, and ).

**7. The find all () method returns a string list or a list of string tuples. What causes it to return one of the two options?**

**Ans:** If the regex has no groups, a list of strings is returned. If the regex has groups, a list of tuples of strings is returned.

**8. In standard expressions, what does the | character mean?**

**Ans:** The | character signifies matching “either, or” between two groups.

**9. In regular expressions, what does the character stand for?**

**Ans:** The character can either mean “match zero or one of the preceding group” or be used to signify nongreedy matching.

**10.In regular expressions, what is the difference between the + and \* characters?**

**Ans:** The + matches one or more. The \* matches zero or more.

**11. What is the difference between {4} and {4,5} in regular expression?**

**Ans:** The {4} matches exactly four instances of the preceding group. The {4,5} matches between four and five instances.

**12. What do you mean by the \d, \w, and \s shorthand character classes signify in regular expressions?**

**Ans:** The \d, \w, and \s shorthand character classes match a single digit, word, or space character, respectively.

**13. What do means by \D, \W, and \S shorthand character classes signify in regular expressions?**

**Ans:** The \D, \W, and \S shorthand character classes match a single character that is not a digit, word, or space character, respectively.

**14. What is the difference between .? and .?**

**Ans:** The performs a greedy match, and the .? performs a nongreedy match.

**15. What is the syntax for matching both numbers and lowercase letters with a character class?**

**Ans:** Either [0-9a-z] or [a-z0-9]

**16. What is the procedure for making a normal expression in relax case insensitive?**

**Ans:** Passing re .I or re. IGNORECASE as the second argument to re. compile() will make the matching case insensitive.