**ASSIGNMENT - PYTHON STRINGS**

Q1 Give the output:

1. >>>**print('''Rajan said, "It’ a lovely day"''')**
2. >>>**print("Ram said, \"I AM LEARNING  PYTHON")**
3. >>> **print("Ram said, "I AM LEARNING  PYTHON"")**
4. >>>**print ('Sangeeta said, "I’ve got good grades" ')**
5. **>>> print ('Sangeeta said, "I\’ve got good grades" ')**
6. >>> **print("A goal \n without a plan is just a \t wish")**

Q2 Give the elements of the following string which are present at the given index numbers:

**str="Hard work pays off"**

1. str [2]
2. str [-3]
3. str [2:5]
4. str [2:5:2]
5. str [:5]
6. str [3:]
7. str [::2]
8. str [::-2]
9. str [-5:-2]
10. str [5:2:-1]
11. str [-2:-5:-1]
12. str [-2:-5:-2]

Q3. Consider the following strings:

**str1="Dreams don’t work unless you do"**

**str2="Hard work pays off"**

Identify which of the following operation is possible on strings. If possible, write Python statements for the following:

1. To add “Thanks” at the end of the string str1.
2. To add string str2 at the end of the string str1.
3. To replace the word “unless” in the string str1 with “if”.
4. To insert the word “Thanks” after the word “Dreams” in string str1.
5. To remove the third character from the string str1.
6. To delete the entire string str1.
7. To traverse the string str1 using for loop.
8. To traverse the string str2 using while loop.

Q4. Consider the strings str1 and str2 and give the output of the following Python statements:

**str1="Dreams don’t work unless you do"**

**str2="Hard work pays off"**

1. str2=str1+str2
2. str1=str2+str1
3. str2=str\*2
4. "work" in str1
5. "off" not in str2
6. print (r 'Please \n note this')

Q5. Give the output of the following Python statements:

**str1="Information age #2018"**

**str="@"**

1. len(str1)
2. print(str1.capitalize())
3. print(str1.isalnum())
4. print(str1.isalpha())
5. print(str1.isdigit())
6. print(str1.lower())
7. print(str1.upper())
8. print(str1.islower())
9. find('In')
10. find('a')
11. find('a', 8)
12. find('in')
13. print (str1.isspace())
14. print(str1.isupper())
15. istitle()
16. str.join(str1)
17. print(str1.replace('a', '@'))
18. partition('age')
19. split('e')

Q5. Write Python script to input a string and a character and count the number of occurrences of the character in the string.

Q6. Write Python script to input a string and display it in reverse order.

Q7. Write Python script to input a string and check whether it is a palindrome or not.

Q8. Write Python script to input a string and count the number of words in it.

Q9. Write Python script to input a string and count the number of words beginning with ‘A; or ‘a’.

Q10. Write Python script to input a string and replace the first letter of every word to uppercase and then display it.

Q11. Write Python script to input a string and replace all occurrences of the word ‘the’ with ‘that’.

Q12. Write Python script to input a string and count and display the number of capital alphabets, small alphabets and numbers.