# **Assignment-7**

#### Ans1-

```
s = "egg"
t = "add"
def isIsomorphic(s: str, t: str) -> bool:
    """checks if 2 strings are isomorphic to each other

Args:
    s (str): string to check
    t (str): string to check

Returns:
    bool: True if isomorphic else False
    """
    return len(set(s)) == len(set(t))
isIsomorphic(s,t)
```

## Ans3-

```
num1 = "11"
num2 = "123"
class Solution:

def str_to_num(self , s:str)->int:
    sum1 = 0
    for i in s:
        sum1 = sum1*10 + int(i)
    return (sum1)
```

```
def addStrings(self , num1: str, num2: str) -> str:
        """Takes 2 non negative numbers as strings and adds
        them together and returns a string representation of
the result
        Args:
            num1 (str): string representation of the first
number
            num2 (str): string representation of the second
number
        Returns:
            str: string representation of the sum
        a = self.str to num(num1)
       b = self.str to num(num2)
        return str(a+b)
obj = Solution()
obj.addStrings(num1 , num2)
```

### Ans 4-

```
s = "Let's take LeetCode contest"

def stringWordReversal(s:str)->str:
    """takes a string s and returns it
    with all the words reversed
```

```
Args:
    s (str): string

Returns:
    str: string with all the words reversed

"""

return " ".join([i[::-1] for i in s.split()])

stringWordReversal(s)
```

#### Ans 5-

## Ans 6-

```
s = "abcde"
goal = "cdeab"

def strShift(s:str, goal:str)->bool:
    """checks if a given string s can become
    string goal after some number of shifts

Args:
    s (str): string
    goal (str): goal string

Returns:
    bool: True if s can become goal else False
    """

for i in range(len(s)):
```

```
s = s[-1]+s[:-1]
    if s == goal:
        return True
    return False
strShift(s,goal)
```

#### Ans7-

## Ans 8-

```
coordinates = [[1,2],[2,3],[3,4],[4,5],[5,6],[6,7]]
def straightLineCheck(coordinates: list[list[int]])->bool:
    """check if the given coordinates are on a straight line

Args:
    coordinates (list[list[int]]): points

Returns:
    bool: True if points are on a straight line
```