

## Programming Assignment-22

### Question 1:

Ans.

```
def list_operation(x, y, n):  
    return [i for i in range(x, y + 1) if i % n == 0]
```

# Examples

```
print(list_operation(1, 10, 3)) # → [3, 6, 9]
```

```
print(list_operation(7, 9, 2)) # → [8]
```

```
print(list_operation(15, 20, 7)) # → []
```

### Question 2:

Ans.

```
def simon_says(lst1, lst2):  
    return lst1[:-1] == lst2[1:]
```

# Examples

```
print(simon_says([1, 2], [5, 1])) # → True
```

```
print(simon_says([1, 2], [5, 5])) # → False
```

```
print(simon_says([1, 2, 3, 4, 5], [0, 1, 2, 3, 4])) # → True
```

```
print(simon_says([1, 2, 3, 4, 5], [5, 5, 1, 2, 3])) # → False
```

### Question 3:

Ans.

```
def society_name(friends):  
    return ''.join(sorted(name[0] for name in friends))
```

# Examples

```
print(society_name(["Adam", "Sarah", "Malcolm"])) # → "AMS"
```

```
print(society_name(["Harry", "Newt", "Luna", "Cho"])) # → "CHLN"
```

```
print(society_name(["Phoebe", "Chandler", "Rachel", "Ross", "Monica", "Joey"])) # → "CJMPRR"
```

#### Question 4:

**Ans.**

```
def is_isogram(word):
```

```
    word = word.lower()
```

```
    return len(set(word)) == len(word)
```

#### # Examples

```
print(is_isogram("Algorism")) # → True
```

```
print(is_isogram("PasSword")) # → False
```

```
print(is_isogram("Consecutive")) # → False
```

#### Question 5:

**Ans.**

```
def is_in_order(s):
```

```
    return list(s) == sorted(s)
```

#### # Examples

```
print(is_in_order("abc")) # → True
```

```
print(is_in_order("edabit")) # → False
```

```
print(is_in_order("123")) # → True
```

```
print(is_in_order("xyzz")) # → True
```