Python Set Exercise

1: Add a list of elements to a given set

Given:

```
sampleSet = {"Yellow", "Orange", "Black"}
sampleList = ["Blue", "Green", "Red"]
```

Expected output:

Note: Set is unordered.

```
{'Green', 'Yellow', 'Black', 'Orange', 'Red', 'Blue'}
```

2: Return a new set of identical items from a given two set

```
set1 = {10, 20, 30, 40, 50}
set2 = {30, 40, 50, 60, 70}
```

Expected output:

```
{40, 50, 30}
```

3: Returns a new set with all items from both sets by removing duplicates

```
set1 = {10, 20, 30, 40, 50}
set2 = {30, 40, 50, 60, 70}
```

Expected output:

```
{70, 40, 10, 50, 20, 60, 30}
```

Note: set is unordered so not necessary this will be the order of the item.

4: Given two Python sets, update the first set with items that exist only in the first set and not in the second set.

```
set1 = {10, 20, 30}
set2 = {20, 40, 50}
```

Expected output:

```
set1 {10, 30}
```

5: Remove items 10, 20, 30 from the following set at once

```
set1 = {10, 20, 30, 40, 50}
```

Expected output:

```
{40, 50}
```

6: Return a set of all elements in either A or B, but not both

```
set1 = {10, 20, 30, 40, 50}
set2 = {30, 40, 50, 60, 70}
```

Expected output:

```
{20, 70, 10, 60}
```

7: Check if two sets have any elements in common. If yes, display the common elements.

```
set1 = {10, 20, 30, 40, 50}
set2 = {60, 70, 80, 90, 10}
```

Expected output:

```
Two sets have items in common

{10}
```

8: Update set1 by adding items from set2, except common items

```
set1 = {10, 20, 30, 40, 50}
set2 = {30, 40, 50, 60, 70}
```

Expected output:

```
{70, 10, 20, 60}
```

9: Remove items from set1 that are not common to both set1 and set2

```
set1 = {10, 20, 30, 40, 50}
set2 = {30, 40, 50, 60, 70}
```

Expected output:

```
{40, 50, 30}
```