Practicals\Q3\Q3.py

```python
# Write a Program that generates all the permutations of a given set of digits, with or
# without repetition.

from itertools import permutations, combinations_with_replacement

arr = [1, 2, 3, 4]

# Permutations without repetition
perms_without_repetition = list(permutations(arr))
print("Permutations without repetition:")
for perm in perms_without_repetition:
    print(perm)
print()

# Permutations with repetition
perms_with_repetition = list(permutations(arr, len(arr)))
print("Permutations with repetition:")
for perm in perms_with_repetition:
    print(perm)
print()
```