

Q1 write a python program to print duplicates from a list of integers.

Input: [40, 50, -20, 60, 60, -20, -20]

list = [40, 50, -20, 60, 60, -20, -20]

duplicate = []

```
for item in list:
    if item not in duplicate:
        duplicate.append(item)
print(duplicate)
```

Q2 write a python program to find the factorial of number.

Ans n = 4

fact = 1

i = n

```
for i in range(1, n+1):
    fact *= i
print(fact)
```

Q3 write a python program to print hollow n by n triangle.

n = 5

```
for i in range(1, n+1):
    for j in range(1, i+1):
        if (j == 1 or j == i or i == n):
```

```
print("x").
```

```
x += 1
```

```
print(xx x, end=" ")
```

```
else:
```

```
print(" ", end=" ")
```

```
print(" ")
```

1

2 3

4 5

6 7

8 9 10 11 12

Q1) write a python program to print the following pattern.

```
for i in range(1, 5)
```

```
    for j in range(1, i)
```

```
        print(" ", end=" ")
```

```
    for k in range(1, 10 - 2 * i)
```

```
        if (i == 1, k == 1, i == 2)
```

```
            print("* ", end=" ")
```

```
    print("\n")
```