

1. Write a program to print numbers from 1 to 10, but stop if the number is 5.

```
print("1. Print numbers from 1 to 10, but stop if the number is 5:")
```

```
for num in range(1, 11):
```

```
    if num == 5:
```

```
        break # Stops the loop when the number is 5
```

```
    print(num)
```

```
print() # Adding a newline for separation
```

2. Write a program to iterate through a list and stop when encountering a specific element.

```
print("2. Iterate through a list and stop when encountering a specific element:")
```

```
my_list = [1, 2, 3, 4, 5, 6, 7, 8]
```

```
stop_element = 5
```

```
for element in my_list:
```

```
    if element == stop_element:
```

```
        print(f"Stopped at element: {element}")
```

```
        break # Stops the loop when the element is found
```

```
    print(element)
```

```
print() # Adding a newline for separation
```

3. Write a program to skip printing even numbers from 1 to 10.

```
print("3. Skip printing even numbers from 1 to 10:")
```

```
for num in range(1, 11):
```

```
    if num % 2 == 0:
```

```
        continue # Skips the even numbers
```

```
    print(num)
```

```
print() # Adding a newline for separation
```

4. Write a program to print numbers from 0 to 9 using range().

```
print("4. Print numbers from 0 to 9 using range():")
```

```
for num in range(10): # range(10) generates numbers from 0 to 9
```

```
    print(num)
```

```
print() # Adding a newline for separation
```

5. Write a program to print multiplication tables from 1 to 5, but stop after the first table is printed for each number.

```
print("5. Print multiplication tables from 1 to 5, but stop after the first table is printed for each number:")
```

```
for i in range(1, 6):
```

```
    print(f"Multiplication table for {i}:")
```

```
    for j in range(1, 11):
```

```
        print(f"{i} × {j} = {i * j}")
```

```
        if j == 1: # Stops after printing the first entry in the table for each number
            break
    print() # Adding a newline for separation
```

6. Write a program to skip printing even numbers using a while loop.

```
print("6. Skip printing even numbers using a while loop:")
```

```
num = 1
```

```
while num <= 10:
```

```
    if num % 2 == 0:
```

```
        num += 1
```

```
        continue # Skips the even numbers
```

```
    print(num)
```

```
    num += 1
```