Python While Loop Examples

1. Counting Numbers

```
i = 1

while i <= 5:

    print(i)

    i += 1
```

Output:

```
1

2

3

4

5
```

2. Reverse Counting

```
n = 5

while n > 0:

    print(n)

    n -= 1
```

Output:

5

4

3

2

1

3. Print Your Name 5 Times

count = 1

while count <= 5:

   print("Sri")

   count += 1

Output:

Sri

Sri

Sri

Sri

Sri

4. Sum of First 10 Numbers

i = 1

total = 0

```python
while i <= 10:

    total += i

    i += 1


print("Sum is:", total)
```

Output:

Sum is: 55

5. Break Example (Stop When Found)

```python
num = 1
while num <= 10:

    if num == 7:

        print("Found 7! Stopping...")

        break

    print(num)

    num += 1
```

Output:

1

2

3

4

5

6

Found 7! Stopping...

6. Continue Example (Skip One Number)

num = 0

while num < 5:

   num += 1

  if num == 3:

    continue

  print(num)

Output:

1

2

4

5

7. Print Numbers from 100 to 1

num = 100

while num >= 1:

```
    print(num)

    num -= 1
```

Output (first few lines):

```
100

99

98

...

2

1
```

8. Print Numbers from 1 to 100

```
num = 1

while num <= 100:

    print(num)

    num += 1
```

Output (first few lines):

```
1

2

3
```

...

99

100

9. Even / Odd Numbers

a) From 1 to 10

```python
num = 1
while num <= 10:
    if num % 2 == 0:
        print(num, "is Even")
    else:
        print(num, "is Odd")
    num += 1
```

Output:

1 is Odd

2 is Even

3 is Odd

...

10 is Even

b) Only Even Numbers (up to 20)

```python
num = 2
```

```python
while num <= 20:

    print(num)

    num += 2
```

c) Only Odd Numbers (up to 20)

```python
num = 1

while num <= 20:

    print(num)

    num += 2
```

10. Biggest Number

a) From a List

```python
numbers = [45, 89, 23, 67, 91, 12]

i = 0

biggest = numbers[0]


while i < len(numbers):

    if numbers[i] > biggest:

        biggest = numbers[i]

    i += 1


print("Biggest number is:", biggest)
```

Output:

Biggest number is: 91

b) From User Input

```python
count = int(input("How many numbers? "))

i = 1

biggest = None


while i <= count:

    num = int(input(f"Enter number {i}: "))

    if biggest is None or num > biggest:

        biggest = num

    i += 1


print("Biggest number is:", biggest)
```

Example Run:

How many numbers? 4

Enter number 1: 34

Enter number 2: 99

Enter number 3: 56

Enter number 4: 88

Biggest number is: 99