

**Do the assignment on the while loop with different conditions in it and do the five example on each of the case?**

### **Example 1: Counting Upwards**

```
```python
# While loop to print numbers 1 to 5
count = 1
while count <= 5:
    print(count)
    count += 1
```
```

### **Example 2: Counting Downwards**

```
```python
# While loop to print numbers 5 to 1
count = 5
while count >= 1:
    print(count)
    count -= 1
```
```

### **Example 3: User Input**

```
```python
# While loop to get user input until a valid number is provided
user_input = None
while user_input is None or user_input <= 0:
    user_input = int(input("Enter a positive number: "))
    if user_input <= 0:
        print("Invalid input. Please enter a positive number.")
```
```

### **Example 4: Conditional Break**

```
```python
# While loop with a conditional break statement
count = 1
while True:
    print(count)
    count += 1
    if count > 5:
        break
```
```

### Example 5: Multiple Conditions

```
```python
# While loop with multiple conditions
count = 1
while count <= 5 and count % 2 != 0:
    print(count)
    count += 1
```
```