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Training Sessions

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Date	Sep-03-2024	Session No	1B

Topic : Python Basics - Loop, Functions, while, for

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main.py

```
'''
number = 105
while number <= 200:
    print(number)
    number = number + 7
'''

# Number div by 11 reverse order 300 to 200
number = 297
while number >= 200:
    print(number)
    number = number-11

print('------------------------------')

def any_range(start, end, step):
    list_nums = []
    for x in range(start, end, step):
        #print(x)
        list_nums.append(x)
    return list_nums


y = any_range(105, 200, 7)
print(y)
```

Questions to try : Assignment

1. Write a Python function `print_multiples(start, end, multiple)` that prints all multiples of `multiple` between `start` and `end`.
2. Write a Python function `generate_range(start, end, step)` that returns a list of numbers from `start` to `end` (exclusive) with a step of `step`.
3. Write a Python function `print_squares(n)` that prints the squares of numbers from 1 to `n`.
4. Write a Python function `print_multiples_in_range(start, end, multiple)` that prints all multiples of `multiple` within the range from `start` to `end`.
5. Write a Python function `is_divisible(number, divisor)` that returns `True` if `number` is divisible by `divisor`, otherwise `False`. Use this function to print all numbers between 50 and 150 that are divisible by 7.
6. Write a Python function `print_odd_numbers(start, end)` that prints all odd numbers between `start` and `end`.
7. Write a Python function `is_prime(n)` that returns `True` if `n` is a prime number. Use this function to print all prime numbers between 1 and 50.

END