lab6.py

```python
#wap program to reverse a number using a while loop


def reverse_number(num):
    reversed_num = 0
    while num != 0:
        remainder = num % 10
        reversed_num = reversed_num * 10 + remainder
        num = num // 10
    return reversed_num


number = int(input("Enter an integer: "))


print("Reversed number =", reverse_number(number))

#wap program to check whether a number is palinrome or not

# Function to check if a number is a palindrome
def is_palindrome(num):
    original_num = num
    reversed_num = 0

    while num > 0:
        remainder = num % 10
        reversed_num = reversed_num * 10 + remainder
        num = num // 10

    return original_num == reversed_num


number = int(input("Enter an integer: "))


if is_palindrome(number):
    print(f"{number} is a palindrome.")
else:
    print(f"{number} is not a palindrome.")


#wap program finding the factorial of a given number using a while loop

# Function to calculate factorial using a while loop
def factorial(num):
    result = 1
    while num > 0:
        result *= num
        num -= 1
    return result

```

```
52
53 number = int(input("Enter a non-negative integer: "))
54
55
56 if number < 0:
57     print("Factorial is not defined for negative numbers.")
58 else:
59
60     print(f"The factorial of {number} is {factorial(number)}")
61
62
63
```