

## PCA2 (1)

```
word = input("Enter a word: ")

if word == word[::-1]:
    print("Palindrome")
else:
    print("Not a palindrome")
```

Enter a word: madam  
Palindrome

```
num = int(input("Enter a number: "))
original = num
reverse = 0
while num > 0:
    digit = num % 10
    reverse = reverse * 10 + digit
    num = num // 10
if original == reverse:
    print("The number is a palindrome.")
else:
    print("The number is not a palindrome.")
```

Enter a number: 123451  
The number is not a palindrome.

```
num = int(input("Enter a number: "))
if num % 2 == 0:
    print(f"{num} is even.")
else:
    print(f"{num} is odd.")
```

Enter a number: 45  
45 is odd.

```
num = int(input("Enter a number: "))
fact = 1
for i in range(1, num + 1):
    fact = fact * i
print(f"The factorial of {num} is {fact}.")
```

Enter a number: 5  
The factorial of 5 is 120.

```
def table(num):
    for i in range(1, 11):
        print(num, "X", i, "=", num * i)

num = int(input("Enter a number: "))
table(num)
```

Enter a number: 6

6 X 1 = 6  
6 X 2 = 12  
6 X 3 = 18  
6 X 4 = 24  
6 X 5 = 30  
6 X 6 = 36  
6 X 7 = 42  
6 X 8 = 48  
6 X 9 = 54  
6 X 10 = 60