

DS2 Evening Batch

March 4, 2025

[2]: *# WAP to take two numbers from the user and print the largest of them*

```
num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))

if num1 > num2:
    print(f"{num1} is greater than {num2}")
elif num2 > num1:
    print(f"{num2} is greater than {num1}")
else:
    print(f"{num1} and {num2} are equal!")
```

Enter the first number: 23
Enter the second number: 23
23 and 23 are equal!

[5]: *# WAP to assign grades according to the students final mark =>90:A, =>80:B, ↵
↵=>70:C, =>60:D else F*

```
grade = int(input("Enter your marks: "))

if grade >= 90:
    print("Grade A")
elif grade >= 80:
    print("Grade B")
elif grade >= 70:
    print("Grade C")
elif grade >= 60:
    print("Grade D")
else:
    print("Grade F")
```

Enter your marks: 78
Grade C

[7]: *# WAP to check if the given year is a leap year.*

```
year = int(input("Enter a year: "))

if (year % 4 == 0 and year % 100 != 0) or (year % 400 == 0):
    print(f"{year} is a leap year")
```

Enter a year: 2024

2024 is a leap year

[9]: *# WAP to print the palindrome of a given number*

```
num = int(input("Enter a number: "))
temp = num
rev = 0

while temp > 0:
    digit = temp % 10
    rev = rev * 10 + digit
    temp //= 10

if num == rev:
    print(f"{num} is a palindrome")
```

Enter a number: 11

11 is a palindrome

[13]: *# WAP to check the person is eligible to vote or not*

```
try:
    age = int(input("Enter your age: "))

    # Check if age is valid (non-negative)
    if age < 0:
        print("Invalid age! Age cannot be negative.")
    else:
        # Check voting eligibility (assuming the minimum voting age is 18)
        if age >= 18:
            print(f"You are {age} years old.")
            print("You are eligible to vote!")
        else:
            years_left = 18 - age
            print(f"You are {age} years old.")
            print("You are not eligible to vote yet.")
            print(f"You can vote after {years_left} years.")

except ValueError:
```

```
print("Please enter a valid age in numbers!")
```

Enter your age: 22

You are 22 years old.

You are eligible to vote!

[]: