

1. Write a Python program that takes an age as input and determines whether a person is eligible to vote. If the age is 18 or above, print "You are eligible to vote." Otherwise, print "You are not eligible to vote yet."

```
# Prompt the user to input their age
age = int(input("Enter your age: "))

# Check if the age is 18 or above
if age >= 18:
    print("You are eligible to vote.")
else:
    print("You are not eligible to vote yet.")
```

2. Write a program that prompts the user to input two integers and outputs the largest.
3. Write a program that prompts the user to enter a number and determines whether it is positive, negative, or zero. The program should print "Positive" if the number is greater than 0, "Negative" if the number is less than 0, and "Zero" if the number is 0.

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

if number > 0:
    print("Positive")
elif number < 0:
    print("Negative")
else:
    print("Zero")
```

4. Write a program that prompts the user to enter their age and prints the corresponding age group. The program should use the following age groups:

0-12:	Child
13-19:	Teenager
20-59:	Adult
60 and above:	Senior Citizen

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

if age >= 0 and age <= 12:
    print("Your age group is Child")
elif age >= 13 and age <= 19:
    print("Your age group is Teenager")
elif age >= 20 and age <= 59:
    print("Your age group is Adult")
else:
    print("Your age group is Senior Citizen")
```

5. Write a program that prompts the user to input a number from 1 to 7. The program should display the corresponding day for the given number. For example, if the user types 1, the output should be Sunday. If the user types 7, the output should be Saturday. If the number is not between 1 to 7 user should get error message

```
day = int(input("Enter a number from 1 to 7: "))

if day == 1:
    print(day, "is Sunday")
elif day == 2:
    print(day, "is Monday")
elif day == 3:
    print(day, "is Tuesday")
elif day == 4:
    print(day, "is Wednesday")
elif day == 5:
    print(day, "is Thursday")
elif day == 6:
    print(day, "is Friday")
elif day == 7:
    print(day, "is Saturday")
else:
    print("Wrong input! Please enter a number from 1 to 7.")
```

6. Write a program that prompts the user to enter their weight (in kilograms) and height (in meters). The program should calculate the Body Mass Index (BMI) using the formula: $BMI = \text{weight} / (\text{height} * \text{height})$. The program should then classify the BMI into one of the following categories:

less than 18.5 - Underweight
BMI between 18.5 and 24.9 - Normal weight
BMI between 25 and 29.9 - Overweight
BMI 30 or greater - Obesity

7. The marks obtained by a student in 3 different subjects are input by the user. Your program should calculate the average of subjects and display the grade. The student gets a grade as per the following rules

Average	Grade
90-100	A
80-89	B
70-79	C
60-69	D
0-59	F

8. Write a program that prompts the user to input a character and determine the character is vowel or consonant

```
letter = input("Enter a letter: ")
if letter == 'a' or letter == 'e' or letter == 'i' or letter == 'o' or letter == 'u':
    print(letter, "is a vowel.")
else:
    print(letter, "is a consonant.")
```

Or,

```
letter = input("Enter a letter: ")
if letter in ('a','e','i','o','u'):
    print(letter, "is a vowel.")
else:
    print(letter, "is a consonant.")
```