1.Write a program to check whether a person is eligible for voting or not? (Accept age from user)

In [3]:
```
user_age = int(input("Please enter the age: "))
if user_age >= 18:
    print("Eligible to vote")
else:
    print("Age criteria not met for voting")
```

```
Please enter the age: 18
Eligible to vote
```

2.Write a program to display “Hello” if a number entered by a user is a multiple of 5, otherwise print “Bye”

In [5]:
```
number = int(input("Enter a number:"))
if number % 5 ==0:
    print("Hello")
else:
    print("Bye")
```

```
Enter a number:45
Hello
```

3.Write a program to calculate the electricity bill (accept number of units from user) according to the following criteria: Unit Price First 100 units no charge Next 100 units $5 per unit After 200 units 10 per unit (For example, if input unit is 350 than total bill amount is $ 2000)

In [13]:
```
def calculating_bill(units):
    if units <= 100:
        bill_amount = 0
    elif units <= 200:
        bill_amount = (units - 100) * 5
    else:
        bill_amount = 100 * 5 + (units - 200) * 10
    return bill_amount

usage_units = int(input("Enter the number of units consumed: "))
bill_amount = calculate_bill(units)
print("Total bill amount: $", bill_amount)
```

```
Enter the number of units consumed: 50
Total bill amount: $ 0
```

4.Write a program to accept a number from 1 to 7 and display the name of the day like 1 for Sunday, 2 for Monday and so on.

In [24]:
```
week_dictionary ={1:"Sunday", 2:"Monday",3:"Tuesday",4:"Wednesday",5:"Thursday", 6:"Frida

def number_week(number):
    if number in week_dictionary.keys():
        day_of_week = week_dictionary[number]
        print(f"The day for the week as per the provided by number {number} is {day_of_we

    else:
        print(f"The provided number is not within the weekdays(1-7) \n",
    "please try number between 1 and 7")


weekday_number = int(input("Enter the number to find the week day: "))
week_day = number_week(weekday_number)
```

```
Enter the number to find the week day: 9
The provided number is not within the weekdays(1-7)
 please try number between 1 and 7
```

5.Write a program to check a character is vowel or not

In [27]:
```
vowels = ['a','e','i','o','u']

def vowel_check(char):
    if char in vowels:
        print(f"The provided character {char} is vowel")
    else:
        print(f"{char} it's not a vowel !!!")

user_input = input("Enter a character: ")
checking_char = vowel_check(user_input)
```

```
Enter a character: e
The provided character e is vowel
```

6.Accept three sides of a triangle and check whether it is an equilateral, isosceles or scalene triangle.
Note: An equilateral triangle is a triangle in which all three sides are equal. A scalene triangle is a triangle that has three unequal sides, An isosceles triangle with two equal sides

In [33]:
```
def check_triangle(a,b,c):
    if a==b==c:
        print(f"All sides are equal, it is an equilateral triangle")
    elif a==b or b==c or a==c:
        print(f"Two sides are equal, it is an isosceles triangle")
    elif a!=b!=c:
        print(f"Three unequal sides, it is a scalene triangle")

side_1 = int(input("First side: "))
side_2 = int(input("Second side: "))
side_3 = int(input("Third side: "))
checking_triangle_type = check_triangle(side_1,side_2,side_3)
```

```
First side: 5
Second side: 4
Third side: 3
Three unequal sides, it is a scalene triangle
```

In [ ]:
```

```