Day - 4

Conditional Statement

if Statement

In [6]:
```
age = int(input("Enter your age: "))

if age >= 18:
    print("You are eligible to vote")
print("you are not eligible")
```

```
you are not eligible
```

In [10]:
```
number = int(input("Enter a number: "))

if number > 0:  # Condition: If number is greater than 0
    print("✅ The number is positive.")

print("check the input")  # Outside if block
```

```
check the input
```

Home work - Checking for Even Numbers

if else statement

Check Voter Eligibility

In [17]:
```
age = int(input("Enter your age: "))

if age >= 18:  # Condition: If age is 18 or more
    print("You are eligible to vote.")
else:
    print(" You are not eligible to vote. Please wait until you turn 18.")
```

```
You are not eligible to vote. Please wait until you turn 18.
```

Check Discount in Online Shopping

In [24]:
```
order_value = int(input("Enter your order value: "))

if order_value >= 5000:
    discount = 0.10 * order_value
    print("You got a 10% discount of rs",discount)
```

```
else:
    print(" No discount available. Add more items to get a discount.")
```

```
You got a 10% discount of rs 685.0
```

Homework - Checking Temperature & Giving Advice

Scenario:

If the temperature is 30°C or above, print "It's too hot! Stay hydrated." Otherwise, print "The weather is fine. Enjoy your day!"

In [28]:
```
temperature = int(input("Enter the temperature in Celsius: "))

if temperature >= 30:
    print(" It's too hot! Stay hydrated.")
else:
    print(" The weather is fine. Enjoy your day!")
```

```
🔥 It's too hot! Stay hydrated.
```

Homework Checking Exam Result 📚

Scenario:

If a student scores 40 marks or more, they pass the exam. Otherwise, they fail the exam

In [31]:
```
marks = int(input("Enter your marks: "))

if marks >= 40:
    print("🎉 Congratulations! You passed the exam.")
else:
    print("❌ You failed the exam. Better luck next time.")
```

```
🎉 Congratulations! You passed the exam.
```

Student Grade Calculation

In [ ]:
```
A student's grade is determined based on marks:

90 or above → Grade A (Excellent) 🏆
80-89 → Grade B (Very Good) 🎉
70-79 → Grade C (Good) 👍
60-69 → Grade D (Satisfactory) 🆗
50-59 → Grade E (Needs Improvement) ⚠️
Below 50 → Fail ❌
```

In [34]:
```
marks = int(input("Enter your marks: "))

if marks >= 90:
    print("🏆 Grade A - Excellent!")
elif marks >= 80:
```

```
    print("🎉 Grade B - Very Good!")
elif marks >= 70:
    print("👍 Grade C - Good")
elif marks >= 60:
    print("🆗 Grade D - Satisfactory")
elif marks >= 50:
    print("⚠️ Grade E - Needs Improvement")
else:
    print("❌ Fail - Try Again!")
```

```
🆗 Grade D - Satisfactory
```

In [ ]:
```
Restaurant Menu Ordering 🍔
If they order "Pizza", print "You ordered Pizza. Enjoy your meal! 🍕"
If they order "Burger", print "You ordered Burger. Bon Appétit! 🍔"
If they order "Pasta", print "You ordered Pasta. Delicious choice! 🍝"
If the item is not on the menu, print "Sorry, this item is not available. 😔"
```

In [36]:
```
order = input("What would you like to order? (Pizza/Burger/Pasta): ").lower()

if order == "pizza":
    print("🍕 You ordered Pizza. Enjoy your meal!")
elif order == "burger":
    print("🍔 You ordered Burger. Bon Appétit!")
elif order == "pasta":
    print("🍝 You ordered Pasta. Delicious choice!")
else:
    print("❌ Sorry, this item is not available. 😔")
```

```
🍕 You ordered Pizza. Enjoy your meal!
```

In [ ]:
```
#Homework - Checking Train Ticket Fare Based on Age 🚆
Scenario:

Children (0-5 years) travel for free.
Kids (6-12 years) get a 50% discount.
Adults (13-59 years) pay full fare.
Senior citizens (60+ years) get a 30% discount.
```

In [38]:
```
age = int(input("Enter your age: "))
ticket_price = 100  # Base ticket price

if age <= 5:
    print("🎉 Free Ticket! Children under 5 travel for free.")
elif age <= 12:
    print(f"👦 Discounted Ticket! You pay ₹{ticket_price * 0.5}")
elif age < 60:
    print(f"🎫 Full Fare! You pay ₹{ticket_price}")
else:
    print(f"👴 Senior Citizen Discount! You pay ₹{ticket_price * 0.7}")
```

```
🎫 Full Fare! You pay ₹100
```

Nested if

In [ ]:
```
Checking Eligibility for a Driving License

Scenario:
```

```
A person must be at least 18 years old to apply for a driving license.
If the person is 18 or older, check if they have valid ID proof to proceed.
If they do not have an ID, they cannot apply.
```

In [42]:
```
age = int(input("Enter your age: "))

if age >= 18:  # Outer if condition
    print("✅ You are eligible to apply for a driving license.")

    has_id = input("Do you have a valid ID proof? (yes/no): ").lower()

    if has_id == "yes":  # Inner if condition
        print("🎉 You can apply for the driving license!")
    else:
        print("⚠️ Sorry, you need valid ID proof to apply.")
else:
    print("❌ You are not eligible for a driving license yet. Try again when you
```

```
✅ You are eligible to apply for a driving license.
🎉 You can apply for the driving license!
```

In [ ]:
```
Checking Scholarship Eligibility 🎓
Scenario:

A student must have at least 85% marks to be eligible for a scholarship.
If the student has 90% or more, they get a full scholarship.
If the student has 85-89%, they get a partial scholarship.
If marks are below 85%, they are not eligible
```

In [44]:
```
marks = float(input("Enter your marks percentage: "))

if marks >= 85:  # Outer if condition
    print("✅ You are eligible for a scholarship!")

    if marks >= 90:  # Inner if condition
        print("🎉 Congratulations! You get a FULL scholarship.")
    else:
        print("👍 You get a PARTIAL scholarship.")
else:
    print("❌ Sorry, you are not eligible for a scholarship. Keep working hard!"
```

```
✅ You are eligible for a scholarship!
🎉 Congratulations! You get a FULL scholarship.
```

In [ ]: