Python If-Else Assignment Solutions

Submitted by: Kashish Talwani

1. Discount Calculator

```python
price = float(input("Enter price: "))
if price > 500:
    final = price * 0.9
else:
    final = price * 0.95
print("Final price:", final)
```

2. Driving Eligibility

```python
age = int(input("Enter age: "))
if age >= 18:
    print("Eligible to drive")
else:
    print("Not eligible to drive")
```

3. Driving Eligibility (duplicate)

```python
age = int(input("Enter age: "))
if age >= 18:
    print("Eligible to drive")
else:
    print("Not eligible to drive")
```

4. Store Timing

```python
time = int(input("Enter time (0-23): "))
if 9 <= time <= 21:
    print("Store is open")
else:
    print("Store is closed")
```

5. Pass or Fail

```python
marks = int(input("Enter marks: "))
if marks >= 40:
    print("Pass")
else:
    print("Fail")
```

6. Prime Membership

```python
prime = input("Prime member (yes/no): ")
if prime.lower() == "yes":
    print("Free delivery")
else:
    print("Delivery charge ■50")
```

7. Leap Year Checker

```python
year = int(input("Enter year: "))
if (year % 4 == 0 and year % 100 != 0) or (year % 400 == 0):
    print("Leap year")
else:
    print("Not leap year")
```

8. Temperature Alert

```python
temp = float(input("Enter temperature: "))
if temp > 40:
    print("Heat Alert")
elif temp < 0:
    print("Cold Alert")
else:
    print("Normal Weather")
```

9. Grade Calculator

```python
percent = float(input("Enter percentage: "))
if percent >= 90:
    print("A+")
elif percent >= 80:
    print("A")
elif percent >= 70:
    print("B")
else:
    print("C")
```

10. Bank Withdrawal

```python
balance = float(input("Enter balance: "))
withdraw = float(input("Enter amount: "))
if withdraw <= balance:
    print("Withdrawal successful")
else:
    print("Insufficient balance")
```

11. Number Comparison

```python
a = float(input("First number: "))
b = float(input("Second number: "))
if a > b:
    print("First is greater")
elif a < b:
    print("First is smaller")
else:
    print("Both equal")
```

12. Password Validator

```python
pwd = input("Enter password: ")
if pwd == "secure123":
    print("Access granted")
else:
    print("Access denied")
```

13. Evening Discount

```python
time = int(input("Enter time (0-23): "))
price = float(input("Enter price: "))
if 18 <= time <= 21:
    price *= 0.8
print("Final price:", price)
```

14. Eligible for Voting

```python
citizen = input("Citizenship: ")
age = int(input("Age: "))
if citizen.lower() == "indian" and age >= 18:
    print("Eligible to vote")
else:
    print("Not eligible to vote")
```

15. Restaurant Bill Split

```python
people = int(input("Number of people: "))
bill = float(input("Bill amount: "))
if people > 5:
    bill *= 1.15
print("Total bill:", bill)
```

16. Delivery Service

```python
location = input("Location (urban/rural): ")
if location.lower() == "urban":
    print("Delivery available")
```

```
else:
    print("Delivery not available")
```

17. BMI Calculator

```python
weight = float(input("Weight (kg): "))
height = float(input("Height (m): "))
bmi = weight / (height ** 2)
if bmi < 18.5:
    print("Underweight")
elif bmi <= 24.9:
    print("Normal")
else:
    print("Overweight")
```

18. Weekend Check

```python
day = input("Enter day: ").lower()
if day in ["saturday", "sunday"]:
    print("Weekend")
else:
    print("Weekday")
```

19. Flight Fare Check

```python
age = int(input("Age: "))
fare = float(input("Fare: "))
if age < 12 or age > 60:
    fare *= 0.5
print("Final fare:", fare)
```

20. Electricity Bill

```python
units = int(input("Units: "))
if units <= 100:
    cost = units * 5
elif units <= 300:
    cost = units * 10
else:
    cost = units * 15
print("Bill amount:", cost)
```