Practical 2 :-

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Problem Statement:

You are working in a loan approval section of a bank; you need to create a Python script for "printing loan approval or not" from the following criteria. (AGE SHOULD BE GREATER THAN 18, SALARY SHOULD BE NO LESS THAN 4 LAKHS, AND CREDIT SCORE SHOULD BE NO LESS THAN 600).

In [20]:
```python
# Taking user input
name = str(input("Enter your name: "))
age = int(input("Enter your age: "))
salary = int(input("Enter salary: "))
credit_score = int(input("Enter your credit score: "))
loan_amount = int(input("Enter amount of loan you want to take: "))

# Logic to approve loan or not
if (age>18 and salary>400000 and credit_score>600):
    print(f"\nDear {name}, your loan amount of Rs. {loan_amount} has been approved!")
else:
    print(f"\nDear {name}, your loan amount of Rs. {loan_amount} has NOT been approved!")
```

Dear Sarthak, your loan amount of Rs. 350000 has been approved!

Problem Statement:

You are working in a weather monitoring station. Create a Python script to read the temperature from the user and convert it from Celsius to Fahrenheit or vice versa, and after that print weather is frizzing, cold, moderate, or hot.

In [21]:
```python
print("Enter 1 to input temperature in Celsius. \nEnter 2 to input temperature in Fahrenheit.")
ch = int(input("Enter choice: "))

if (ch == 1):
    temp_cel = float(input("Enter temperature: "))
    temp_fahr = (temp_cel * (9/5)) + 32
    print(f"\nTemperature in Celsius: {temp_cel:.2f} C \nTemperature in Fahrenheit: {temp_fahr:.2f} F")

if (ch == 2):
    temp_fahr = float(input("Enter temperature: "))
    temp_cel = (temp_fahr - 32) * (5/9)
    print(f"\nTemperature in Fahrenheit: {temp_fahr:.2f} F \nTemperature in Celsius: {temp_cel:.2f} C")

if (temp_cel <= 0):
    weather = "freezing"
elif temp_cel <= 10:
    weather = "cold"
elif temp_cel <= 25:
    weather = "moderate"
else:
    weather = "hot"

print(f"The weather is {weather}!")
```

Enter 1 to input temperature in Celsius.
Enter 2 to input temperature in Fahrenheit.
Temperature in Celsius: 14.00 C
Temperature in Fahrenheit: 57.20 F
The weather is moderate!

Problem Statement:

Write a Python script for displaying whether the given year is a leap year from THE given condition. (THE YEAR SHOULD BE DIVISIBLE BY 4, IF THE YEAR IS DIVISIBLE BY 100 THEN IT SHOULD BE DIVISIBLE BY 400)

In [18]:
```python
# Taking user input
year = int(input("Enter year to check whether it is a leap year or not: "))

# Logic to decide whether it is leap year or not
if ( ((year % 4 == 0) and (year % 100 != 0)) or ((year % 100 == 0) and (year % 400 == 0)) ):
    print(year, "is a leap year!")
else:
    print(year, "is not a leap year!")
```

2024 is a leap year!