PYTHON TASK3

1. **Basic if Statement:**
   - Write a Python program that checks if a number is greater than 10. If it is, print "The number is greater than 10."
2. **If-Else Statement:**
   - Write a Python program that checks if a number is positive or negative. Print "Positive" if it's positive, and "Negative" if it's negative.
3. **Even or Odd:**
   - Write a Python program that checks if a number is even or odd. Print "Even" if the number is even, and "Odd" if it is odd.
4. **Age Checker:**
   - Write a Python program that checks if someone is eligible to vote. If their age is 18 or older, print "Eligible to vote," otherwise print "Not eligible to vote."
5. **Divisibility Test:**
   - Write a Python program that checks if a number is divisible by 5. If it is, print "Divisible by 5," otherwise print "Not divisible by 5."
6. **Greater Number:**
   - Write a Python program that takes two numbers and prints the greater number. If they are equal, print "Both numbers are equal."
7. **Temperature Check:**
   - Write a Python program that checks if the temperature is below freezing point (0°C). If it is, print "It's freezing," otherwise print "It's not freezing."
8. **Password Checker:**
   - Write a Python program that asks the user to enter a password. If the password matches a predefined string, print "Access granted," otherwise print "Access denied."
9. **Math operation**
   - Write a Python program that takes two numbers and a mathematical operator (`+`, `-`, `*`, `/`). Use `if` and `else` to perform the corresponding operation and print the result. If an invalid operator is entered, print "Invalid operator."
10. **Grade Classification:**

- Write a Python program that takes a student's score as input. If the score is 90 or above, print "A". If it's between 80 and 89, print "B". If it's between 70 and 79, print "C". If it's between 60 and 69, print "D". Otherwise, print "F".

11. **Number Classification:**
    - Write a Python program that takes a number as input and checks if it's positive, negative, or zero. Print "Positive" if it's positive, "Negative" if it's negative, and "Zero" if it's zero.
12. **Season Checker:**
    - Write a Python program that takes a month as input and prints the corresponding season. Use the following:

        a. Winter: December, January, February
        b. Spring: March, April, May
        c. Summer: June, July, August
        d. Autumn: September, October, November
13. **Day of the Week:**
    - Write a Python program that takes an integer (1-7) as input, where 1 represents Monday and 7 represents Sunday. Print the corresponding day of the week.
14. **Traffic Light Simulator:**
    - Write a Python program that takes a color as input (red, yellow, green) and prints the corresponding action (Stop, Wait, Go).
15. **BMI Calculator:**
    - Write a Python program that calculates the Body Mass Index (BMI) given weight (in kg) and height (in meters). Classify the result as "Underweight" (BMI < 18.5), "Normal weight" (BMI 18.5-24.9), "Overweight" (BMI 25-29.9), or "Obesity" (BMI 30 and above).
16. **Number Range Checker:**
    - Write a Python program that checks if a number falls within certain ranges. Print "Low" if it's between 1 and 10, "Medium" if it's between 11 and 20, "High" if it's between 21 and 30, and "Out of range" otherwise.
17. **Voting Eligibility with Conditions:**

- Write a Python program that checks if a person is eligible to vote. If the person is 18 or older, print "Eligible to vote". If they are under 18 but at least 16, print "Almost eligible". Otherwise, print "Not eligible to vote".

18. **Simple Grading System:**
    - Write a Python program that takes a student's percentage score as input. If the score is 90 or above, print "Excellent". If it's between 75 and 89, print "Good". If it's between 50 and 74, print "Pass". If it's below 50, print "Fail".

19. Checking requirement

- University of Ibadan requires a student to score 50 &above to be considered for admission in both English and mathematics oau requires students to score at least 50 in either English or mathematics write a condition to check if a student is admissible in UI or oau or not admissible

20. Check Character

- write a python program that takes a single character as input and prints if it is a letter

21. Age Classification

- Write a python program that takes an age as input and print the corresponding group if it is between 0-12 print ‘child’, if it is between 13-19 print ’ teenager’, if it is between 20-59 print ‘adult’ if it is 60 and above print ‘senior citizen’