Assignment 4

1. **Question 1:**

   Write a Python program that checks if a number entered by the user is even or odd. Print "Even" if the number is even and "Odd" if it is odd.

2. **Question 2:**

   Create a program that prompts the user for their age and prints whether they are a child (0-12), teenager (13-19), or adult (20 and above).

3. **Question 3:**

   Write a program that takes two numbers as input from the user and prints which number is larger. If both numbers are equal, print "Both numbers are equal."

4. **Question 4:**

   Create a program that checks if a user-entered password matches the string "securePassword". Print "Access Granted" if it matches, otherwise print "Access Denied."

5. **Question 5:**

   Write a program that takes a score from the user (0-100) and prints the corresponding grade:

   - A for 90-100
   - B for 80-89
   - C for 70-79
   - D for 60-69
   - F for below 60

6. **Question 6:**

   Create a program that asks the user for a number and checks if it is positive, negative, or zero. Print the corresponding message.

7. **Question 7:**

Write a program that takes three numbers from the user and determines the largest of the three. Print the largest number.

8. **Question 8:**

Create a program that checks if a user-entered character is a vowel (a, e, i, o, u) or a consonant. Print the corresponding message.

9. **Question 9:**

Write a program that checks if a given year is a leap year. A year is a leap year if it is divisible by 4, except for years that are divisible by 100 but not divisible by 400.

10. **Question 10:**

Create a program that prompts the user for a temperature in Celsius and converts it to Fahrenheit. If the converted temperature is greater than 100°F, print "It's boiling!" Otherwise, print "It's not boiling yet."