

\*\*\*Scenario1 - Eligibility to Vote

1. Get the Age from the user
2. Check if the age is  $\leq 18$
3. If yes ,return Eligible else not eligible

\*\*\* Scenario 2 - Return largest number from the list

1. Define list of numbers
2. Use max function to return the largest number from the list

\*\*\* Scenario 3 - Calculate bonus based on salary

1. Get the salary from the user.
2. Define salary limit to apply bonus
3. Check if salary  $\geq$  limit , apply 10%bonus
4. Calculate bonus using formula (salary\*bonus percentage/100)
5. If eligible , return the bonus else return not eligible

\*\*\* Scenario 4 - Calculate Odd or Even number

1. Get the number from the user
2. Divide the number by 2 to get the remainder
3. Check if the remainder is equal to 0 or not
4. If the condition is true return Even else odd number

\*\*\* Scenario 5 - Text processing tool / Reverse the given word or sentence

1. Define the text or sentence
2. Use slicing function to reverse the given string
3. Slicing function : rev=text[::-1]
4. Print and return the reversed string

\*\*\* Scenario 6 - Student grading system ,mark>40 pass

1. Get the mark to grade
2. Check if the mark is  $<$  or  $> 40$
3. If greater then return as pass else fail

\*\*\* Scenario 7 - Retail store discount calculation

1. Get the purchase amount from the user
2. Check if the purchase amount is  $> 100\$$
3. If yes apply 20% discount
4. Calculate 20% discount and deduct it from purchase amount
5. Return the final purchase amount

\*\*\* Scenario 8 - Banking system

1. Get the withdrawal amount from the user
2. Set the limit of the initial account balance
3. Check if the withdrawal amount is less than the initial account balance
4. If yes calculate the difference and return the final account balance
5. If no return the transaction cannot be allowed.

\*\*\* Scenario 9 - Leap year

1. Get the input year from the user
2. Check if the year/4=0
3. If yes return leap year
4. If no return not a leap year

\*\*\* Scenario 10 - Extract only the Even numbers from the list

1. Define a list of numbers
2. Use for loop to run as many times as the numbers in the list
3. Check if the number/2=0 return that number else run the loop
4. The program will run as many numbers in the list and return only the even numbers from the list