Scenario Based Answerss

1. **System to check user is eligible to vote based on age**

Step 1: Get the age as input from the user
Step 2: Check the age greater than equal to 18
Step 3: If the age is greater than 18, he is eligible to vote
Step 4: If age is less than 18, he is not eligible to vote

2. **Program to Process a list of number and find the largest value**

Step 1: Create a list of numbers and store it under the name
Step 2: Assign the largest value as first element in the list
Step 3: Use the for loop in the list using temporary variable
Step 4: The If statement loops the number in list and compares it with the largest value in the list
Step 5: The largest number in every cycle is stored in the initial variable assigned as largest
Step 6: After the looping complete the largest number is printed in the variable

3. **Program to give bonus who has salary exceeds $50000**

Step 1: Get the salary as input
Step 2: Use the If statement to check the salary greater than 50000.
Step 3: If the salary is greater than 50000, the company can provide 10% bonus to the respective person.
Step 4: If the salary is less than 50000, the person is not eligible to get bonus

4. **Program to determine if it is even or odd.**

Step 1: Get the number as input
Step 2: If the number when divided by 2 has a reminder equal to 0 it is even.
Step 3: If the number does not give reminder 0 on division of 2, it is odd.

5. **Text formatting tool to reverse a word or sentence.**

Step 1 : Assign a string of word or sentence
Step 2: Assign a temporary variable to the word with start and stop as null and step as -1 in the string of word variable.
Step 3: Print the temporary variable which is printed in reverse

6. **A Grading System to determine whether student has passed or failed**

Step 1: Get the input from the user as marks
Step 2: Use the If statement to check whether marks is greater or than equal to 40 marks.

Step 3: If the marks is greater than or equal to marks he has passed the test
Step 4: If the marks is less than 40 he has failed the test.

7. **A retail store to offer 20% discount if total order amount exceeds $100**

Step 1: Get the amount of the order arrived finally.
Step 2: Use the If statement to check whether it exceeds $100.
Step 3: If the condition satisfies the new variable is used to subtract the total amount and 20 percent of the total amount
Step 4: If the total amount is less than $100, The order is not eligible for discount.

8. **A Bank checks balance and allows for withdrawal if it has proper minimum balance of Rs.1000.**

Step1 : A user asks for withdrawal amount from the bank as input.
Step2 : Use the If Statement to check whether if the amount gets withdrawn gives less than equal to balance allow the transaction.
Step 3: If the amount is greater than balance the transaction amount reduces the amount from the balance and gives only the balance amount which is present .
Step 4: The Final balance amount is printed on the screen.

9. **A System to check whether a year is leap year or not.**

Step 1: A user enters the year in integer.
Step 2: If the Year is divisible by both 4 and 100 or divisible by 400 it is a leap year.
Step 3: If the year has not satisfied the above condition it is not a leap year.

10. **A Program filters out even numbers from the list**.

Step 1: Take a list of numbers.
Step 2: Use the for loop to get the numbers in a variable to check.
Step 3: if the number in variable is divisible by 2 the append method is added to the new list which is empty.
Step 4: The Final list is printed with only even numbers.