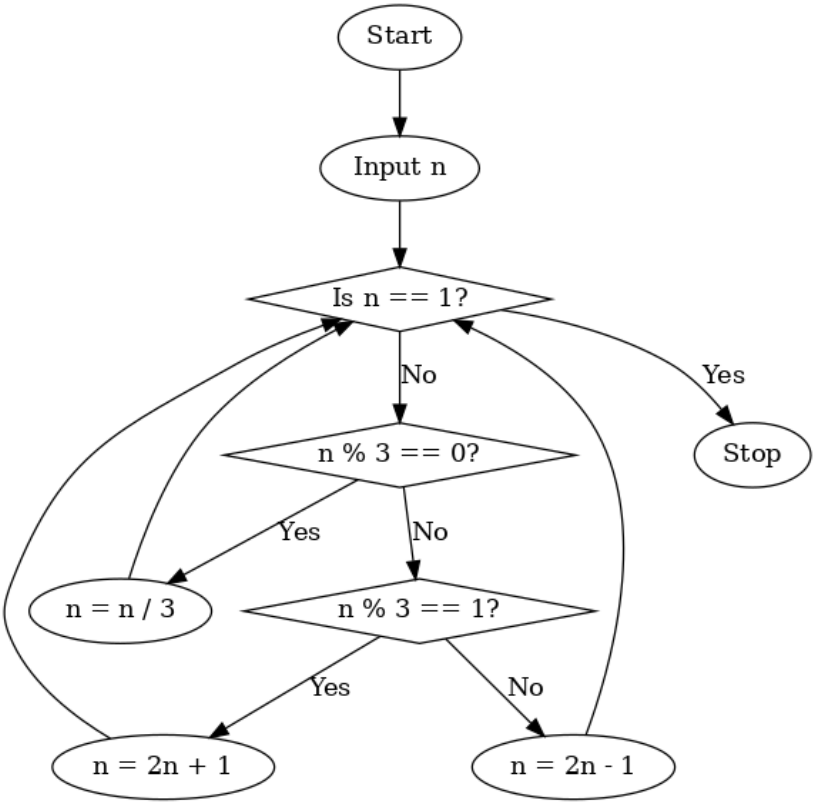
A

Programming Fundamentals			
Quiz 1	Section C	Marks:20	Time: 20 Minutes

Q1: Flowchart Dry Run

Task: Dry run this flowchart for n = 10.



Dry Run Table:

Q2: Word Problem

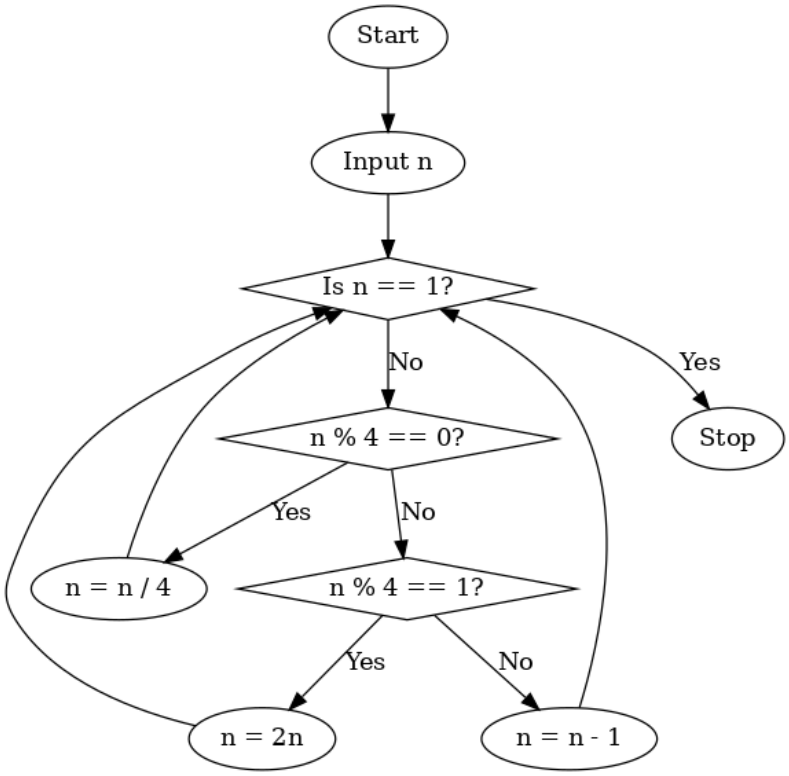
A taxi company charges a base fare of $100. For the first 10 km, the cost is $20 per km. Beyond 10 km and up to 30 km, the cost is $15 per km. Beyond 30 km, the cost is $10 per km. If the ride is at night, the total fare has a 10% surcharge. If the passenger is a registered member, they receive a 5% discount before the surcharge is applied. Design a flowchart to calculate the total fare.

B

Programming Fundamentals			
Quiz 1	Section C	Marks:20	Time: 20 Minutes

Q1: Flowchart Dry Run

Task: Dry run this flowchart for n = 10.



Dry Run Table:

Q2: Word Problem

An electricity company charges households based on usage. The first 100 units cost $5 per unit. Any usage from 101 to 300 units costs $8 per unit. Beyond 300 units, the cost is $10 per unit. A fixed service charge of $50 is added to every bill. Additionally, if the total bill exceeds $5000, a 5% rebate is applied. Construct a flowchart to calculate the final bill.