IIT- Tutorial Lab Week 13 – Software Testing

Introduction

In this week's tutorial, we will start with the black box software testing framework. This is important preparation work for Week 14 final assignment.

Part 1: Testing

For each of the following, add test data to the table to thoroughly test the program. Give each test a unique description. No two tests should have the same description and avoid numbers in your descriptions. Note that the number of rows in the table below is no indication on how many tests you should have. You may need more, you may need fewer. You must first work out the equivalence partitions, then type of data the program works with (ordinal vs. non-ordinal), then the boundaries and special cases, before you start filling in the table with the actual tests.

a) Movie tickets cost \$5 for a child (<10 years of age), \$10 for a teenager (10yr ≤ age < 20yr) and \$12 for an adult (≥ 20yr).

Description	Age	Ticket cost()

b) A company has a recruiting policy of only interviewing applicants between 25 and 40 inclusive. However, they will interview applicants up to the age of 45 if they have at least 10 years' experience.

Description	Age	Experience	interview()

c) To be elected, a candidate must get over half of the votes cast. An election has 3 candidates, A, B, and C. If no candidate gets over half of the votes, the result is "-". The input here is the actual number of votes, not percentages.

Description	votes A	votes B	votes C	result()