

LAB3 – Using Decision Table, BVA and Equivalence Partition

Due Date: 19-06-2023

Student uses decision table, boundary value analysis and decision table to build test cases for the following questions. Using decision table to answer.

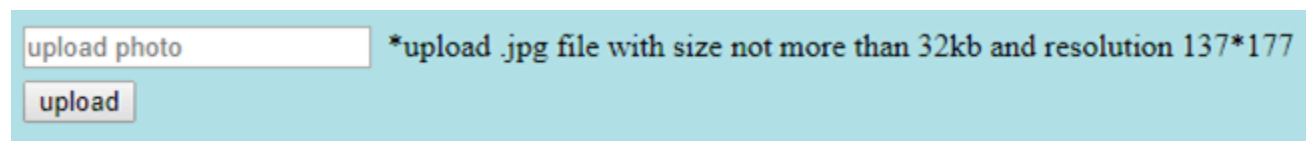
Exercise 1 Students refer to Example 3 (slide-Chapter 4) for Loan application to consider

Customer name:	<input type="text"/>	2-24 chars
Account number:	<input type="text"/>	6 digits, 1 st non-zero
Loan amount requested:	<input type="text"/>	\$500 to \$9000
Term of loan:	<input type="text"/>	1 to 10 years
Monthly repayment:	<input type="text"/>	minimum \$100

Exercise 2: Consider a dialogue box which will ask the user to upload photo with the following conditions

1. You can upload only '.jpg' format image
2. file size less than 32kb
3. resolution 137*177.

If any of the conditions fails the system will throw corresponding error message stating the issue and if all conditions are met photo will be updated successfully



Exercise 3: Given a function in C:

```
int func1(int a, int b){
    if (a > b) {
        while (a >= b)
            { a -= 1; b += 1; }
    }
    else {b += a; }
    return b;
}
```

Exercise 4:

```
def func2(x,y):
    if (1 > x > 0) and y < 0:
        return x+y
    elif x > 1:
        return x*y
    else:
        return x-y
```

Exercise 5:

The discount in supermarket is computed based on two factors: *types of card (yellow or white)* and *cost of the bill at the current payment*. The bill over 500\$ with yellow card is discounted 6% but with white one is discounted 5%; the bill over \$300 and \leq \$500 with yellow card is discounted 4% but with white one is discounted 3%; the bill \geq \$200 and \leq 300 with yellow card is discounted 3% but not discounted for white one. There is no discount for the remaining cases.

Exercise 6:

Write a function for determining the type of flight ticket which is described in the following statements: If you are flying with an economy ticket, there is a possibility that you may get upgraded to business class, especially if you hold a gold card in the airline's frequent flier program. If you don't hold a gold card, there is a possibility that you will get 'bumped' off the flight if it is full and you check in late.

Exercise 7: Testing an e-commerce site offering discount as following:

Purchase amount (in Rs)	Discount (%)
≥ 999	5
≥ 1999	10
≥ 3999	15
≥ 5999	25
≥ 7999	35
≥ 9999	50