



**OBJECTIVE:** You will learn:

1. Nested If-Else Structure
2. Switch-Case Structure

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## 1. Write a program that calculates selling price of a car according to tax rates.

Consider the following for engines that is smaller than 1600cc, if the base price is:

Between 0-92000 -> OTV is 45%, KDV is 18% (e.g. selling price =  $50000 \cdot 1.45 \cdot 1.18$ )

Between 92001-150000 -> OTV is 50%, KDV is 18%

More than 150000 -> OTV is 80%, KDV is 18%

Consider the following for engines that is greater than 1601cc, if the base price is:

Between 0-170000 -> OTV is 130%, KDV is 18% (e.g. selling price =  $50000 \cdot 2.30 \cdot 1.18$ )

More than 170000 -> OTV is 150%, KDV is 18%

### **Example Run 1:**

Please enter engine capacity (in cc): 1600

Please enter the base price: 132000

Selling price is 233640 TL!

### **Example Run 2:**

Please enter engine capacity (in cc): 1498

Please enter the base price: 198000

Selling price is 420552 TL!

### **Example Run 3:**

Please enter engine capacity (in cc): 1998

Please enter the base price: 220000

Selling price is 649000 TL!

## 2 . Write a program that calculates the cost of a market. Use only switch-case structure.

### Example Run 1:

```
*****
WELCOME TO CENG113 MARKET
*****

List Of Products      Price
Product 1             2.98
Product 2             4.50
Product 3             9.98
Product 4             4.49
Product 5             6.87
*****

Type of Cards         Discount
Student              %20
Lecturer             %10
Guest                %5
*****

START BUYING
*****

Enter the product to buy: (1-2-3-4-5): 3
Enter the amount: 2
Do you have membership Card(Y/N): Y
What is your membership type(S/L/G): G
Total price: 18.96
```

### Example Run 2:

```
*****
WELCOME TO CENG113 MARKET
*****

List Of Products      Price
Product 1             2.98
Product 2             4.50
Product 3             9.98
Product 4             4.49
Product 5             6.87
*****

Type of Cards         Discount
Student              %20
Lecturer             %10
Guest                %5
*****

START BUYING
*****

Enter the product that you want to buy: (1-
2-3-4-5): 5
Enter the amount: 7
Do you have membership Card(Y/N): N
Total price: 48.09
```

### Example Run 3:

```
Enter the product that you want to buy: (1-2-3-4-5): 4
Enter the amount: 8
Do you have membership Card(Y/N): Y
What is your membership type(S/L/G): S
Total price: 28.74
```