Kyoungjin Yoon

IT 106 003

Lab 1

Defining Diagram

|  |  |  |
| --- | --- | --- |
| Input | Processing | Output |
| credits | Prompt for user credits  Get user credits  Calculate tuition fee  Print tuition fee | TuitionFee |

Solution Algorithm

CALCULATE\_TUITION\_FEE

1 Prompt user for credits

2 Get credits

3 Set creditCost = 200, technologyFee = 5, registrationFee = 100

4 Set tuitionFee = registrationFee + {credits \*(creditCost + technologyFee)}

5 Print tuitionFee

END

Input Test Data

|  |  |  |
| --- | --- | --- |
|  | First Data Set | Second Data Set |
| credits | 12 | 7 |

Expected Results

|  |  |  |
| --- | --- | --- |
|  | First Data Set | Second Data Set |
| tuitionFee | 2560 | 1535 |

Desk Checking

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Statement Number | credits | creditCost | technologyFee | registrationFee | tuitionFee |
| First Data Set |  |  |  |  |  |
| 1, 2 | 12 |  |  |  |  |
| 3 |  | 200 | 5 | 100 |  |
| 4 |  |  |  |  | 2560 |
| 5 |  |  |  |  | Print |
| Second Data Set |  |  |  |  |  |
| 1, 2 | 7 |  |  |  |  |
| 3 |  | 200 | 5 | 100 |  |
| 4 |  |  |  |  | 1535 |
| 5 |  |  |  |  | Print |