# Computing: Assignment 03

Problem

A CSC 113 student wants to assign the value to the variable 'result' based on the value of the

input provided by the user. The value of input provided by the user is stored in a variable

'user\_input'. The table given below mentions the conditions using which the 'user\_input' needs

to be assigned to variable 'result'.

|  |  |
| --- | --- |
| Condition for user\_input | Assign value to result |
| Less than 0 | -1 |
| 0 to 5 | 0 |
| 6 to 12 | 1 |
| 13 to 19 | 2 |
| 20 to 50 | 3 |
| 51 to 60 | 4 |
| 61 to 101 | 5 |
| Greater than 101 | -1 |

1. EXPRESS the solution to the above problem using an Algorithm. (CLO 2) [5 marks]

* Input user\_input
* Output result
* Start
* Read user\_input
* If user\_input < 0, then result = -1
* Else if user\_input >= 0 and user\_input <= 5, then result = 0
* Else if user\_input >= 6 and user\_input <= 12, then result = 1
* Else if user\_input >= 13 and user\_input <= 19, then result = 2
* Else if user\_input >= 20 and user\_input <= 50, then result = 3
* Else if user\_input >= 51 and user\_input <= 60, then result = 4
* Else if user\_input >= 61 and user\_input <= 101, then result = 5
* Else result = -1 (for values greater than 101)
* Display result
* End

1. ILLUSTRATE the Algorithm you’ve designed using a Flowchart. (CLO 2) [5 marks]

