

CSCI1010H Lab Exercise 9 - Testing and Debugging

Introduction

This lab will give you some experience with Testing and Debugging.

Instructions

1. Consider the following program, which you can download here: [drivers_age.py](#). Devise a collection of at least 8 input test cases to thoroughly test the program considering equivalence classes, boundary values, path testing and statement coverage. Work out the expected output for each test case, and then run the program and test whether the generated result corresponds with the expected output.

```
# This program indicates the driving status based on age

def main():
    age = int(input('Enter age:'))
    if 0 < age < 16:
        print('Too young to drive!')
    elif 16 <= age < 18:
        print('Can get learners licence!')
    elif 18 <= age <= 100:
        print('Old enough to drive!')
    else:
        print('Incorrect age!')

main()
```

2. Using the WingIDE debugging features, analyse the following program which you can download here: [list_total.py](#). Set a breakpoint at the line "total = 0", start the program in debug mode, step through the program and watch how the variables change in the Data Stack window.

```
# This program totals a list of numbers

def main():
    num_list = []
    total = 0
    while True:
        num = int(input('Input number(0 to stop):'))
        if num == 0: break
        num_list.append(num)
```

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