

CSCI 128 Lab, Week 4

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Lab 4.1: Vacation Planning

```
# Cost of hotel room for specified number of nights

def hotel_cost(nights):
    total_hotel_cost = 140 * nights
    return total_hotel_cost

# Flight Prices
## Toronto = 183
## Ottawa = 220
## Edmonton = 222
## Vancouver = 475

# Cost of airfare for cities

def plane_ride_cost(city):
    if city == Toronto:
        return 183
    elif city == Ottawa:
        return 220
    elif city == Edmonton:
        return 222
    elif city == Vancouver:
        return 475
    else:
        print 'You can fly to Toronto, Ottawa, Edmonton, or Vancouver'
        total_flight_cost = city
        return total_flight_cost

# Cost of rental car, with $50 discount after 7 days and $20 discount between

def rental_car_cost(days):
    rental_car_cost = 40 * int(days)
    week_plus_discount = rental_car_cost - 50
    three_days_plus_discount = rental_car_cost - 20
    if days >= 3 and days < 7:
        return three_days_plus_discount
    elif days >= 7:
        return week_plus_discount
    else:
        return base_car_rental

def trip_cost(city,days):
    total_trip_cost = hotel_cost(days) + plane_ride_cost(city) + rental_car_cost(days)
    return total_trip_cost
    print total_trip_cost
```

Lab 4.2: Reverse String Duplicator

```
def ReverseDuplicator(string):  
    pile = ""  
    for letter in string:  
        pile = letter + letter + pile  
    return pile
```