

Project 1 – Python Program – Formatting and IF Statements

The St. John's Marina & Yacht Club is tired of all the paper it keeps tracking who has their yachts docked at the club, how much to charge them each month, and if the members have paid their bill. They decided the need to start with a program to allow them to enter the appropriate information and prepare a receipt. The club would like the receptionist to be able to enter existing club members, and add new members as they are accepted, since not all sites are in use. There are 100 sites at the marina.

Input for the program will include the Site number (1- 100), the member name, street address, city, province and postal code, phone number, and cell number, the membership type (S for Standard, E for Executive), and an value for each of the following options: the number of alternate members (family and friends who will be allowed access to the grounds), weekly site cleaning (Y for Yes, N for No), and video surveillance (Y for Yes, N for No).

The program should perform the following calculations. Even numbered sites cost \$80.00 per month, and odd numbered sites cost \$120.00 since they are larger. Each alternate member costs \$5.00 per month. Add these two numbers to get the site charges.

If the member chooses, weekly site cleaning the charge is \$50.00 per month, and video surveillance is \$35.00 per month. Add these together to determine the extra charges.

The subtotal is the site charge plus the extra charges. Taxes are calculated at 15% on all charges, and the total monthly charge is the site charges plus the extra charges plus the taxes. Finally monthly dues are calculated at \$75.00 for standard members and \$150.00 for executive members. The total monthly charge and the monthly dues are added together to give the Total Monthly Fees.

Also determine the total Yearly Fees by multiplying the total monthly fees by 12. The monthly payment is the Total yearly fees, plus a processing fee of \$59.99 divided by 12. Finally, a cancellation fee, if the client leaves the marina without proper notice, as 60% of the yearly site charges.

Display all calculated values to the screen based on the invoice displayed on the right. The membership type will be displayed as Standard or Executive. The weekly site cleaning and video surveillance will be displayed as Yes or No. The date can be printed as a literal for this exercise – we will see how to handle dates later.

St. John's Marina & Yacht Club
Yearly Member Receipt

Client Name and Address:

XXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXX, XX XXXXXXX

Phone: XXXXXXXXXXXX (H)
XXXXXXXXXXXX (C)

Site #: ### Member type: XXXXXXXXX

Alternate members:	##
Weekly site cleaning:	XXX
Video surveillance:	XXX

Site charges:	\$#,###.##
Extra charges:	\$###.##

Subtotal:	\$#,###.##
Sales tax (HST):	\$###.##

Total monthly charges:	\$#,###.##
Monthly dues:	\$###.##

Total monthly fees:	\$#,###.##
Total yearly fees:	###,###.##

Monthly payment:	\$#,###.##
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Issued: YYYY-MM-DD
HST Reg No: 549-33-5849-4720-9885

Cancellation fee:	\$#,###.##
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