



AICP Internship Task Week 3

Units of electricity consumption are given in the form of a matrix in source data. You are required to write user-defined functions and create a repeating menu in Python or C++ keeping in mind the following requirements:

1. The student's ID should be displayed at the top of the menu.
2. Press 1 to display the bill of slab 1 and slab 2. (**Hint:** In slab 1, the unit range is 0 to 100, each unit costs Rs.10, and the data of slab 1 is in the first row of the matrix. While in slab 2, the unit range is 101-200, each unit costs Rs.15, and the data of slab 2 is in the second row of the matrix)
3. Press 2 to display the bill of slab 3. (**Hint:** In slab 3, the unit range is 201 to 300, each unit costs Rs.20, and the data of slab 3 is in the third row of the matrix.)
4. Press any other key to exit.

Source data:

(Use two-dimensional array to store the following matrix)

$$\begin{bmatrix} 55 & 65 & 75 \\ 120 & 150 & 170 \\ 210 & 230 & 240 \end{bmatrix}$$

Instructions to write Python / C++ program:

- Use the given source data. If you do not use it, your marks will be deducted.
- Write functions to calculate and display cost for slab 1, slab 2, and slab 3 from the given source matrix.

The following function names should be used for consistency.

To calculate and display cost for slab 1: costSlab1();

To calculate and display cost for slab 2: costSlab2();

To calculate and display cost for slab 3: costSlab3();



Sample Output:

When 1 is pressed

```
My Student ID is XY12345678
Enter your choice
Press 1 to display the bill of slab 1 and slab 2.
Press 2 to display the bill of slab 3.
Press any other key to exit.
1
Bill for Slab 1 is
550      650      750
Bill for Slab 2 is
1800     2250     2550
```

When 1 is pressed

```
My Student ID is XY12345678
Enter your choice
Press 1 to display the bill of slab 1 and slab 2.
Press 2 to display the bill of slab 3.
Press any other key to exit.
2
Bill for Slab 3 is
4200     4600     4800
```

When anyother key is pressed, program is terminated.

```
My Student ID is XY12345678
Enter your choice
Press 1 to display the bill of slab 1 and slab 2.
Press 2 to display the bill of slab 3.
Press any other key to exit.
3
```