# Assignment Number: 3.2

# Problem Statement:

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| |  | | --- | | Australia is a great place to live, but it is also a land of high taxes. In 2002, individual citizens and residents of Australia paid the following income taxes:    In addition, a flat 1.5% Medicare levy is charged on all income. Write a program to calculate how much income tax a person will owe based on this information. The program should accept a total income figure from the user and calculate the income tax, Medicare levy, and total tax payable by the individual. | |

# Inputs :

Variable is a which inputs the total income of the person.

# Outputs:

Variables are

* b which denotes income tax
* c which denotes medicare levy
* d = b+c which denotes total tax payable by the individiual

# Pseudocode:

* Define a as Total income of a person in dollar,b as income tax,c asd medicare levy and d as total tax payable
* Assign the value to a
* If a is ≤ $6000 then display ,b is $0,c is 3a/200 and d is 3a/200.
* If a ≥ $6000 and ≤20001,then display b is $ 0.71(a-6000) ,c is 3a/200 and d is b+c.
* If a ≥$20001 and ≤50,000, then display b is $ 2300+0.3(a-20001),c is 3a/200 and d is b+c.
* If a ≥$50001 and ≤ $60,000 then display b is $11300+0.82(a-500001),c is 3a/200 and d is b+c.
* If a is ≥600001 then display b is $15,580+(a-60000),c is 3a/200 and d is b+c
* stop

# Program :tax\_aussie.m

% Script File:tax\_ aussie

% Purpose: Determine the amount of tax to be paid

% Record of Revision:

% Akash jaiswal 15/09/2015 Original

% Variable declaration

% Input Variables

%income=the income of the person

% Output Variable

% ‘tax’-the amount of money to be paid according to the income

%%

clc;clear all;close all;

ti=input('Enter your income of the person = $');

if(ti>=0 && ti<=6000)

tax=0;

medicare\_levy=0.015\*ti;

elseif(ti>6000 && ti<=20000)

tax=(ti-6000)\*0.17;

medicare\_levy=0.015\*ti;

elseif(ti>20000 && ti<=50000)

tax=2380+((ti-20000)\*30);

medicare\_levy=0.015\*ti;

elseif(ti>50000 && ti<=60000)

tax=11380+((ti-50000)\*0.42);

medicare\_levy=0.015\*ti;

elseif(ti>60000)

tax=15580+((ti-60000)\*0.47);

medicare\_levy=0.015\*ti;

end

tt=tax+medicare\_levy;

fprintf('Income tax = $%6.2f\nMedicare levy = $%6.2f\nTotal tax = $%6.2f\n',tax,medicare\_levy,tt)

# Test Results :

>>tax\_aussies

Enter the income of the person: $6564

Income tax=$95.88

Medicare levy=$98.46

Total tax=$194.34