**COMSATS University Islamabad,**

**Lahore Campus**

Logo, company name

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**Programming Fundamentals**

**LAB TASK 02**

**Exercise 4:** A company insures its drivers in the following cases:

* − If the driver is married.
* − If the driver is unmarried, male & above 30 years of age.
* − If the driver is unmarried, female & above 25 years of age.
* In all other cases the driver is not insured. If the marital status, gender and age of the driver are the inputs, write a program to determine whether the driver is to be insured or not

**Flowchart:**

Start

Input Age, Gender, Marital Status

If Age>25

Marital Status

If Gender

Female

Unmarried

False

True

Married

Male

If Age>30

The Driver is Insured

True

The Driver is Not Insured

False

The Driver is Not Insured

The Driver is Insured

Stop

**C Code:**

#include <stdio.h>

#include <stdlib.h>

/\* This program is prepared by Syed Asad Jamil. Reg no. SP22-BSE-123. Section: B on 27/03/2022

(This Program find the insurance status of Married and un married person.\*/

int main()

{

int age,ms,g; //ms for Marital Status, g for Gender

printf("Enter Marital Status [0-Married 1-Unmarried] : ");

scanf("%d",&ms);

if(ms==0) //For Married

{

printf("The Driver is Insured!\n");

}

else if(ms==1) //For Unmarried

{

printf("Enter Gender [0-Male 1-Female] : ");

scanf("%d",&g);

printf("Enter Age : ");

scanf("%d",&age);

if(g==0) //For male

{

if(age>30)

{

printf("The Driver is Insured!\n");

}

else

printf("The Driver is Not Insured!\n");

}

else if(g==1) //For Female

{

if(age>25)

{

printf("The Driver is Insured!\n");

}

else

{

printf("The Driver is Not Insured!\n");

}

}

else

printf("Gender is Invalid!");

}

else

{

printf("Marital Status is Invalid!");

}

return 0;

}

**Output:**

Graphical user interface, text

Description automatically generated

Graphical user interface, text

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