Lab 3: Python Conditional Statements

Objective(s)

- Write code that employ conditional statements, including those that employ sequences of decisions and nested decisions.
- Handle exceptions in python.

Tool(s)/Software

- Pycharm
  or
- IDLE(Python 3.10 or above)
  or
- https://www.online-python.com/

Description

- Write python programs that solve the following problems:

Tasks/Assignments(s)

Q1:
Write a Python program that reads a value of **n** and check the number is zero or nonzero value.

Q2:
Write a Python program to find a largest of two numbers.

Q3:
Write a Python program that reads the number and check the number is positive or negative.

Q4:
Write a Python program to check entered character is vowel or consonant.

Q5:
Write a Python program to evaluate the student performance based on the grade given by the user:
If grade is >=90 then print **Excellent performance**
If grade is >=80 then print **Very Good performance**
If grade is >=70 then print **Good performance**

If grade is >=60 then print **average performance**
Otherwise print **Poor performance**.

Q6:
Write a Python program to find largest of three numbers.

Q7:
Write a Python program to find smallest of three numbers.

Q8:
Write a Python program to check if a number entered by the user is even or odd, positive or negative.
Example of output:
-3 is negative and odd number.

Q9:
A company insures its drivers in the following cases:

- If the driver is married.
- If the driver is unmarried, male and above 30 years of age.
- If the driver is unmarried, female and above 25 years of age.
- In all the other cases, the driver is not insured.

If the marital status, gender and age of the driver are the inputs ,write a Python program to determine whether the driver is insured or not.

Example of output:
Enter marital status: unmarried
Enter gender: Male
Enter age: 28
The driver is not insured.

Q10:
Rewrite the program in Q9 using **try except and finally** to handle non-numeric input for the age.

Example Output 1:
Enter marital status:unmarried
Enter your gender:male
Enter your age:ten
Age must be integer
The end

Example Output2:

Enter marital status:unmarried
Enter your gender:female
Enter your age:20
the driver is not insured
The end

Example output3:
Enter marital status:married
Enter your gender:female
Enter your age:20
the driver is insured
The end

Deliverables

- Submit the files via blackboard. If blackboard is not working, send an email.
- No submissions or late submissions are penalized (from participation marks).
- Name the document Python_Lab3_StudentName_Q#
- You need to submit 10 files.