Department of Computer Science University of BATNA 2 Second Practical Work 2023/2024

Program 1:

1. Run the following **C program** and then deduce the problem from it:

```
#include <stdio.h>
int main()
{
   int x=20,y=0;
   printf("\n The quotient of the Euclidean division is: %d",x/y);
   return 0;
}
```

2. LEARN HOW TO USE THE SIMPLE CONDITION

Run the following **C program** with **y** different from zero then with y equal to zero

```
#include <stdio.h>
int main()
{
    int x,y;
    printf(" Give tow integers \n");
    scanf("%d%d",&x,&y);
    if(y!=0)
    printf("\n The quotient of the Euclidean division is: %d",x/y);
    return 0;
}
```

3. LEARN HOW TO USE THE ALTERNATE CONDITION

Modify the program so that it displays the following message in the case y=0

```
Impossible to divide by zero
```

Otherwise displays the following 3 values :

- -The quotient of the Euclidean division
- -The remainder of the Euclidean division
- The real quotient of the division with 4 digits after the decimal point

Program 2: LEARN HOW TO USE THE IMBRICATED CONDITION

Write a C program

```
To enter a real value X
And display the real value Y in the following cases:
```

Y=pow(X,2) if X<=10
 Y=sqrt(X) if 10<X<100
 Y=5*X if X>= 100

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Program 3: LEARN HOW TO USE THE IMBRICATED CONDITION

Write a C program

That allows you to enter a student's average grade

And then display the student's **grade** according to the following cases:

1-Very good if 20 >=average >=16

2-Good if 16 > average >=14

3-Quite well if 14 > average >=12

4-Passable if 12 > average >=10

5- Adjourned if 10 > average >=0

Program 4: LEARN HOW TO USE SWITCH INSTRUCTION

Write a C program

That allows you to enter a **character**

And display its type

Uppercase letter

Lowercase letter

Number

Arithmetic operator

Relational operator

Punctuation mark

Using the multiple-choice instruction