## **TP 5: Conditional structures (continued)**

## 2. the conditional structure "Switch":

The conditional structure **Switch** allows you to select a set of instructions to execute from several choices. It is written in C++ language as follows:

```
switch (expression)
{
    case value 1:<instruction block 1>
        break;

case value 2: <instruction block 2>
        break;

case value 3: <instruction block 3>
        break;

default: <default instruction block>
}
```

#### **Noticed:**

- ➤ The expression in parentheses must be of type **integer** Or **character**.
- ➤ The **case value** can be a constant value, or a constant expression (which contains constants) of the same type as the expression of **switch.**
- ➤ The default part is optional; it is executed in the case where the value of the expression does not correspond to any of the values found in the "case value".

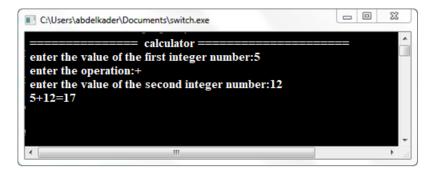
➤ The instruction "break;"; is essencial, she allows you to exit the switch structure once we execute the block of instructions of a box value.

#### Example:

Algorithmic language	C++ language	
Read(wilaya);	Cin >>wilaya;	
Switch (wilaya)	switch (wilaya)	
case 1: Write ("ADRAR");	{	
case 2: Write ("CHLEF");	case 1: cout << "ADRAR";	
//	break;	
//	case 2: cout << "CHLEF";	
case 58: Write ("El MENIA");	break;	
else: Write ("This number does not	//	
exist");	case 58: cout << "El MENIA";	
End case;	break;	
	<b>default:</b> cout << "This number does not	
	exist";	
	}	

# Exercise 1:

Write a C++ program named *calculator* allowing the reading of a first integer A, the operation (+ or – or \* or /: are characters) and the second integer B, then displays the result as follows:



### Exercise 2:

The following image represents a capture of part of an invoice:

Montant HT		4 170,00 €
TVA	20%	
Montant TTC		5 004,00 €
	Soit	
	Cinq mille quatre Euros	

1) Write a C++ program which asks the user for the Amount including tax of an invoice in figures (**rank of thousands at most**) then it displays it in letters. The display should be as follows:

