PRIEUR Romain
Ciel 2

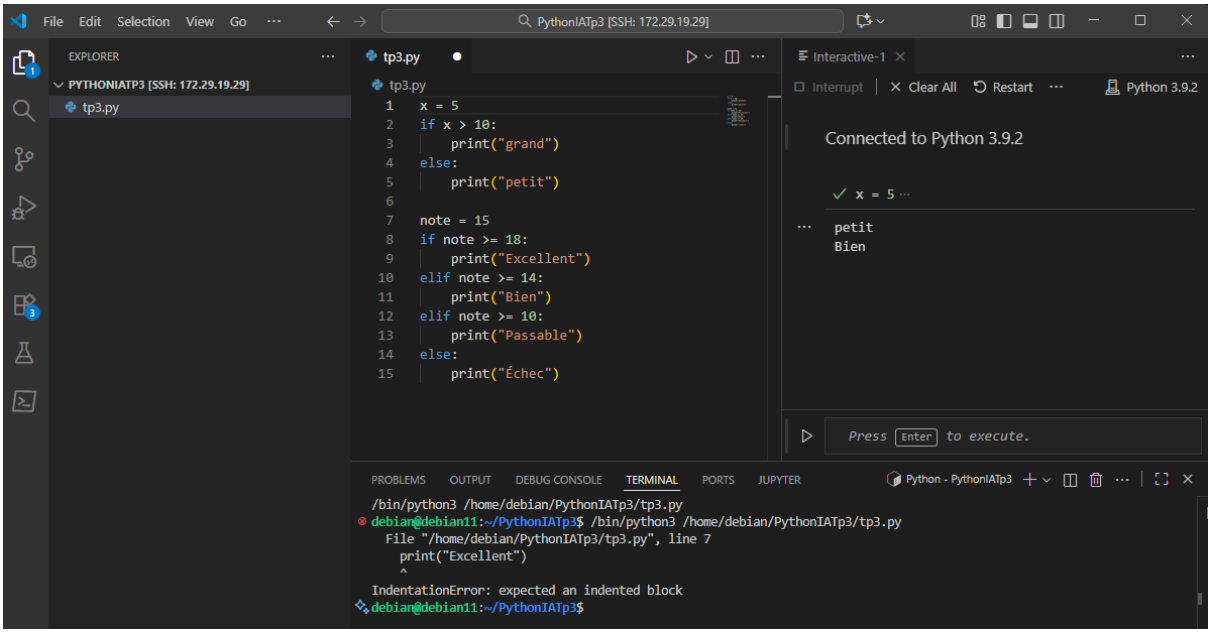
# Co Inter Math-Info

# TP3 IA

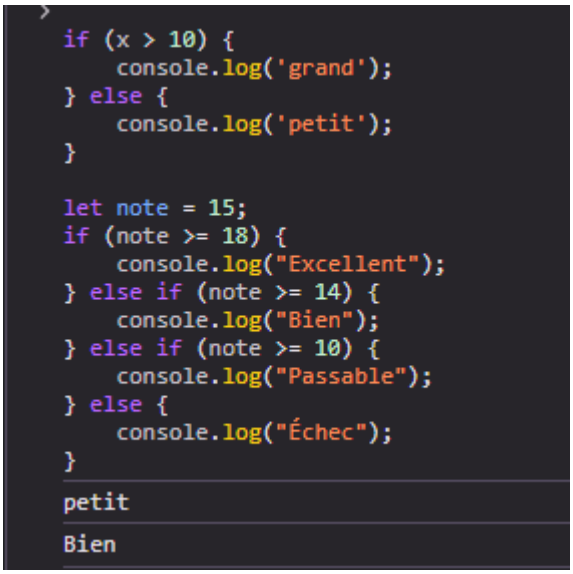
**Groupe: Romain**

Exemple :

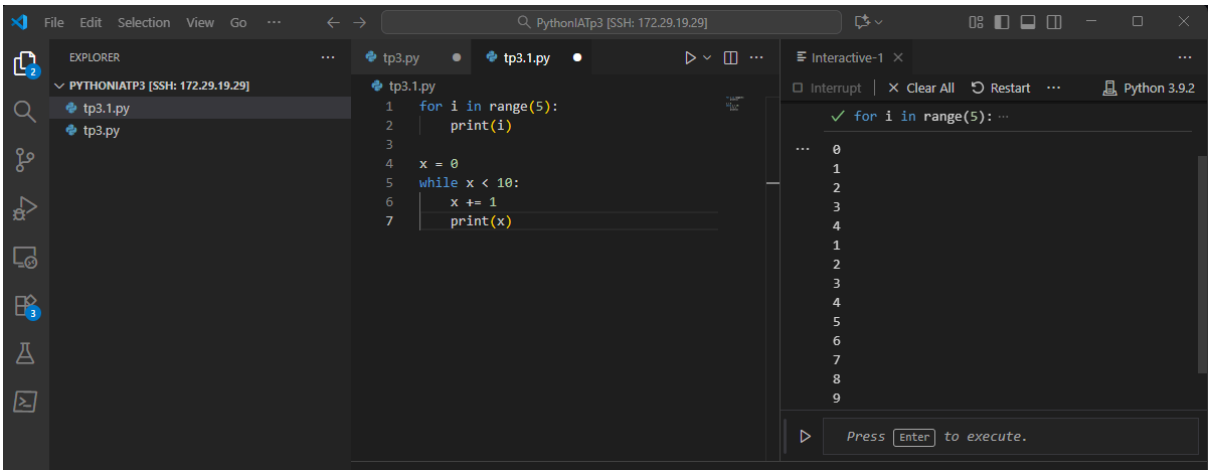
Python : Les condition si sinon




Js: Les condition si sinon




Python : Les boucles

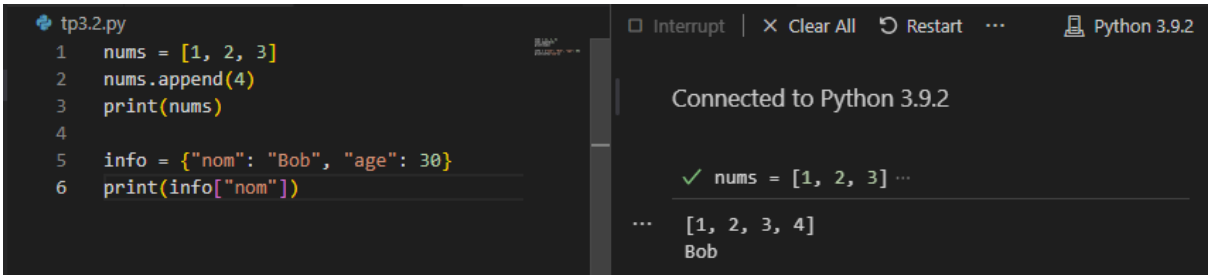



Js : Les boucle

```
for (let i = 0; i < 5; i++) {
    console.log(i);
}


while (x < 10) {
    x++;
    console.log(x);
}
0
1
2
3
4
```

Python : Les collection de tableau

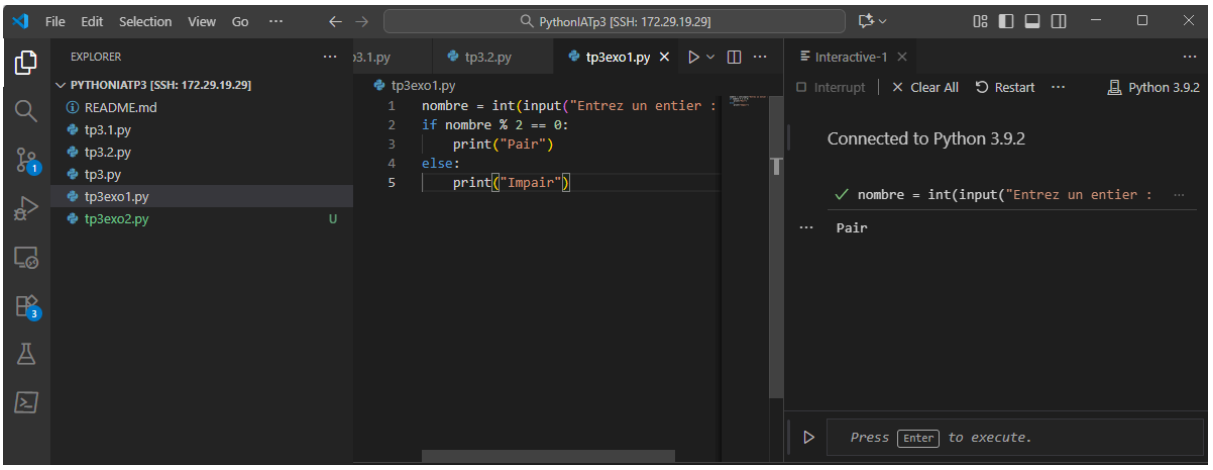


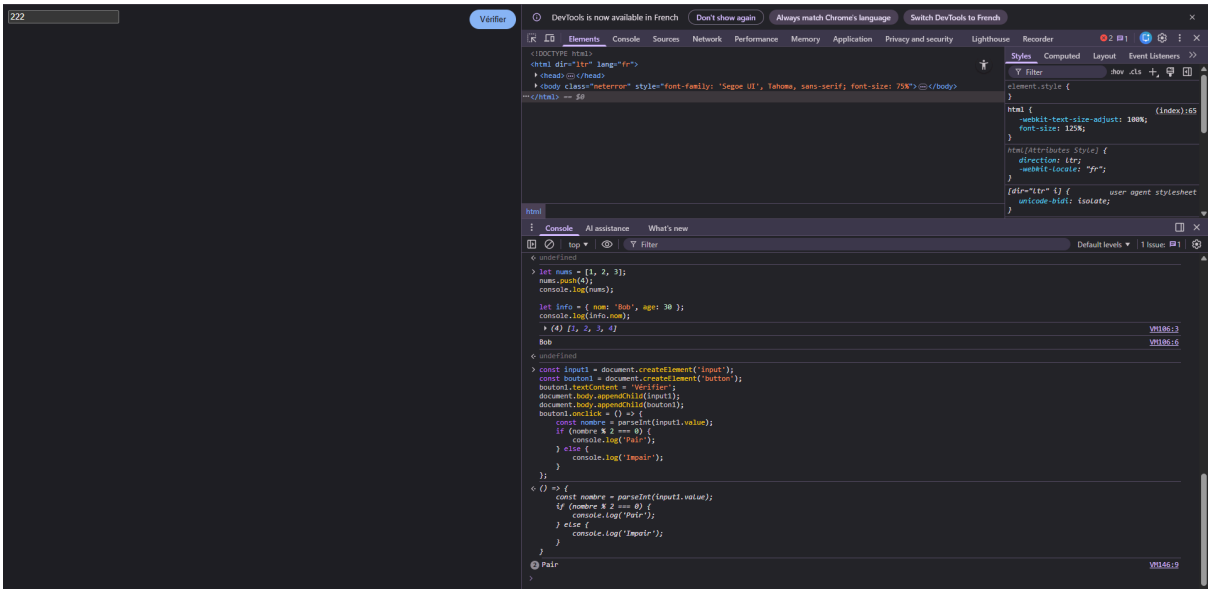

Js : Les collection de tableau

```
let nums = [1, 2, 3];
nums.push(4);
console.log(nums);

let info = { nom: 'Bob', age: 30 };
console.log(info.nom);
 (4) [1, 2, 3, 4]
Bob
```

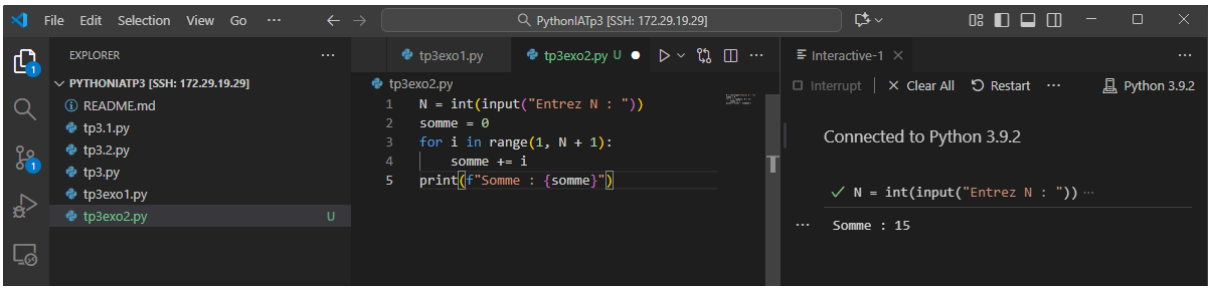
# Exercice 1 (Jaune)

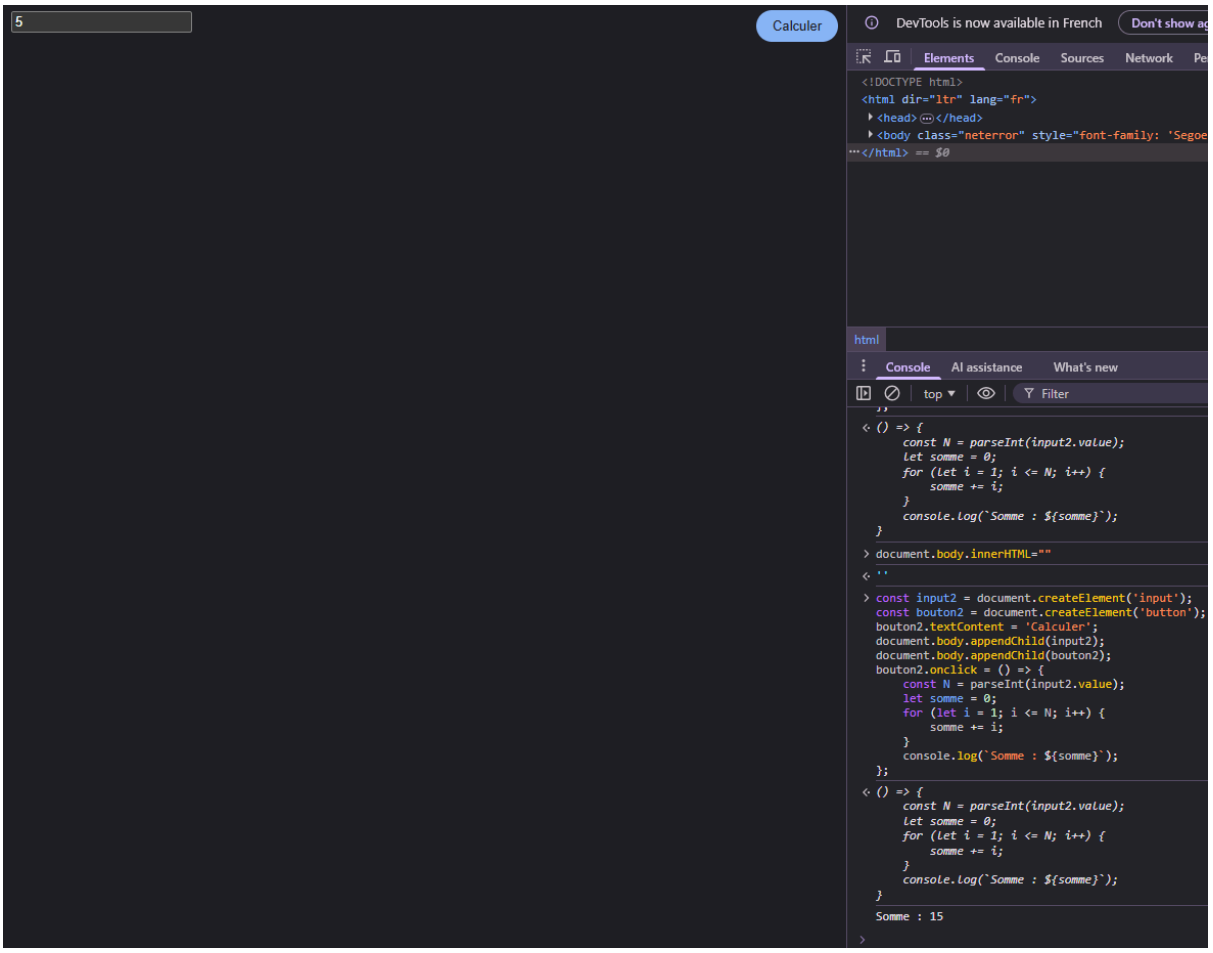



```
const input1 = document.createElement('input');
const bouton1 = document.createElement('button');
bouton1.textContent = 'Vérifier';
document.body.appendChild(input1);
document.body.appendChild(bouton1);
bouton1.onclick = () => {
    const nombre = parseInt(input1.value);
    if (nombre % 2 === 0) {
        console.log('Pair');
    } else {
        console.log('Impair');
    }
};
```

# Exercice 2 (Bleu)

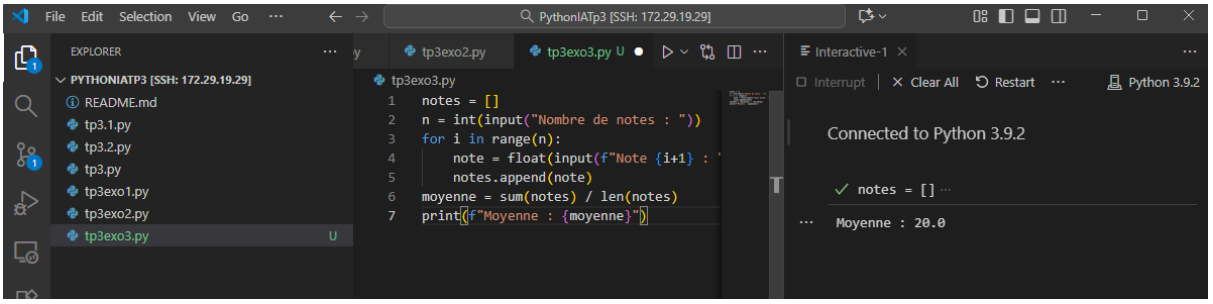



```
const input2 = document.createElement('input');
const bouton2 = document.createElement('button');
bouton2.textContent = 'Calculer';
document.body.appendChild(input2);
document.body.appendChild(bouton2);
bouton2.onclick = () => {
    const N = parseInt(input2.value);
    let somme = 0;
    for (let i = 1; i <= N; i++) {
        somme += i;
    }
    console.log(`Somme : ${somme}`);
```

};

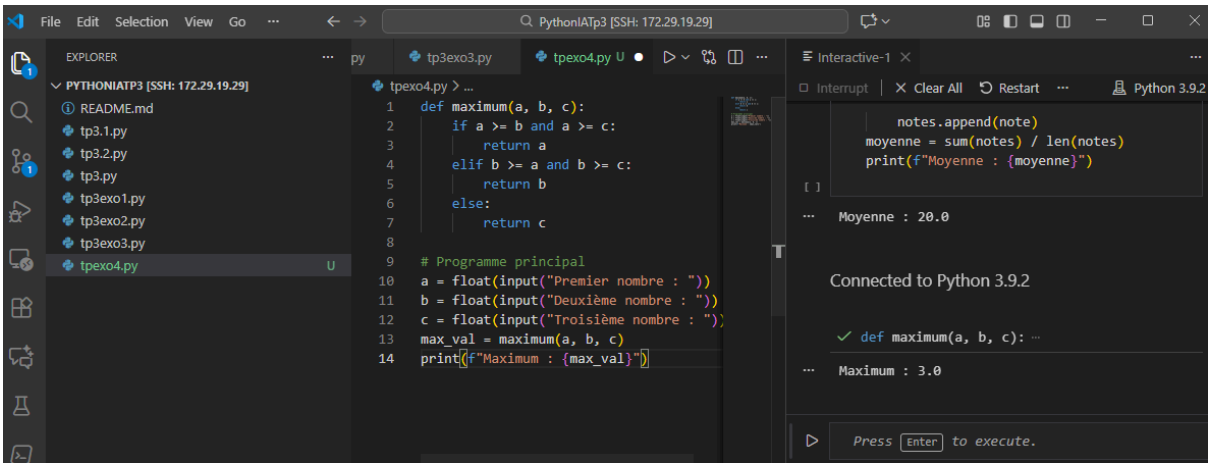
# Exercice 3 (Bleu) si c'est Optimisé (Vert)

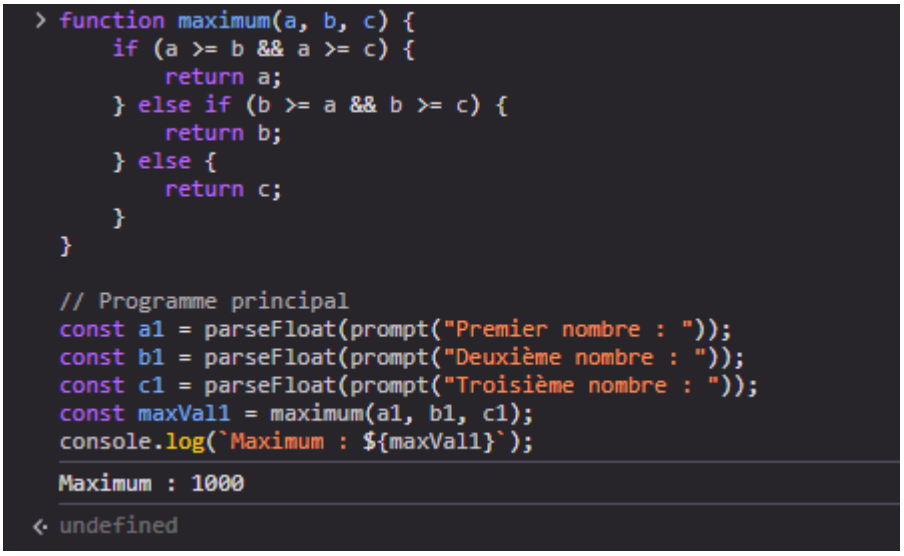



```
> let notes = [];
  const n = parseInt(prompt("Nombre de notes : "));
  for (let i = 0; i < n; i++) {
      const note = parseFloat(prompt(`Note ${i+1} : `));
      notes.push(note);
  }
  const moyenne = notes.reduce((a, b) => a + b, 0) / notes.length;
  console.log(`Moyenne : ${moyenne}`);
  Moyenne : 20
```

```
let notes = [];
const n = parseInt(prompt("Nombre de notes : "));
for (let i = 0; i < n; i++) {
    const note = parseFloat(prompt(`Note ${i+1} : `));
    notes.push(note);
}
const moyenne = notes.reduce((a, b) => a + b, 0) / notes.length;
console.log(`Moyenne : ${moyenne}`);
```

# Exercice 4 (Vert)




```
function maximum(a, b, c) {
    if (a >= b && a >= c) {
        return a;
    } else if (b >= a && b >= c) {
        return b;
    } else {
        return c;
    }
}

// Programme principal
const a1 = parseFloat(prompt("Premier nombre : "));
const b1 = parseFloat(prompt("Deuxième nombre : "));
const c1 = parseFloat(prompt("Troisième nombre : "));
const maxVal1 = maximum(a1, b1, c1);
console.log(`Maximum : ${maxVal1}`);
```