ASSIGNMENT 1

P1. **Compute de max/min of 3 numbers**

```
program1;

sint a;
sint b;
sint c;

if ((a > b) and (a > c)) then
        print(a)
else if (a > b) and (c > a) then
        print(c)
else print(b);

end program1;
```

P1ERR. **Compute de max/min of 3 numbers - containing 2 types of lexical errors**

```
program1;

sint a;
sint 2b; // LEXICAL ERROR: a variable name should not start with a digit
sint $c; // LEXICAL ERROR: a variable name should not start with a special character

if ((a > b) and (a > c)) then
        print(a)
else if (a > b) and (c > a) then
        print(c)
else print(b);

end program1;
```

P2. **Check if a number is prime**

```
program2;

sint a;
sint x;
sint  count;
```

```
x = 2;
count = 0;

if (a < 2) then
        return false
else if (a == 2) then
        return true
else if (a mod 2 == 0) then
        return false
else begin
        for (x from 2 to (a div 2)) do
                if  (a mod x == 0) then
                        inc(count);

        if (count == 0) then
                return true
        else return false;
 end;

end program2;
```

P3. **Compute the sum of n numbers**

```
program3;

sint n;
sint i;
sint x;
sint s;

s = 0;

read(n);
for (i from 1 to n) do begin
        read(x);
        s = s + x;
end;

print(s);

end program3;
```