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;