Lab 1a

P1 – max of 3 numbers

```
{
a: int;
b: int;
c: int;

read (a);
read (b);
read (c);

if (a > b and a > c)
{
write (a);
}
else if (b > c and b > a)
{
write (b);
}
else
{
write (c);
}
}
```

P2– check if a number is prime

```
{
a: int;
isPrime: int = 1;

read (a);

if (a <= 1)
{
		write ("Not-Prime");
}

if (a != 2 and a % 2 == 0)
{
		write ("Prime");
}
else
{
	nr: int = 3;
		while (nr < a)
		{
			if (a % nr == 0)
			{
				isPrime = 0;
				nr = a;
			}
			nr = nr + 2;
			d=e
		}
}
if (isPrime == 1)
{
		write ("Prime");
}
else
{
		write ("Not-Prime");
}
}
```

P3 – compute sum of n numbers

```
{
        n: int;
        read (n);

        array: int [n];
        nrSum: int = 0;
        index: int = 0;

        while (index < n)
        {
                read (array[index]);
                nrSum = nrSum + array [index];
                index = index + 1;
}

write ("Sum:" + nrSum);
}
```

P2err - check if a number is prime

```
{
~a: int;
isPrime: int = 1;

read (a);

if (a <= 1)
        {
                write ("Not-Prime);
        }

if (a != 2 and a % 2 == 0)
        {
                write ("Not-Prime");
        }
else
{
        nr: int = 3;
                while (nr < a)
                {
                        if (a % nr == 0)
                        {
                                isPrime = 0;
                                nr = a;
                        }
                        nr = nr + 2
                }
}
if (isPrime == 1)
        {
                write ("Prime");
        }
else
        {
                write ("Not-Prime");
        }
}
```