Program p1 : find the hypothenuse, knowing the legs

```
def x : float
def y, z : (int, int) = 7, 10

x = rad(y^2 + z^2)

print(`The hypothenuse is *x*`)
```

Program p2: check if number is prime

```
fun isPrime(n: int) : boolean

        def d : number = 2
        while(d <= n/2)
                if(n % d == 0)
                        exit false
                d += 1;
        exit true;


def number: int

print(`Add your number: `)
read(number)

print(isPrime(number) ? `*number* is prime.` : `*number* is not prime.`)
```

Program p3: arithmetic mean of unknown number of numbers

```
def numbers : [int] = []
def input : int = -1
def sum : int = 0
def no : int = 0

print(`Input numebrs, type 0 to stop:`)

while(input != 0) {
        print(`New number: `)
        read(input)
```

```
        sum += input
        no += 1
}


print(`Result *sum//no*`)



## Program perr

def x : float
def x_1, x_2 : (int, int) = 7, 10  ## "_" not allowed in variable name

x = rad(x_1^2 + x_2^2)

printf(`The hypothenuse is *x*`) ## printf instead of print
```