

```
1 program question4
2   implicit none
3   integer :: number
4   real :: summation, inverseSum
5
6   do while((number ≤ 1).or.(number ≥ 100))
7     print *, "Informe um numerto entre 1 e 100"
8     read *, number
9   end do
10
11   print *, "Somatório", summation(number)
12   print *, "Somatório dos inversos", inverseSum(number)
13 end program question4
14
15 function summation(number) result(operationResult)
16   implicit none
17   integer :: number, i
18   real :: operationResult
19   operationResult = 0
20
21   do i = 1, number
22     operationResult = operationResult + i
23   end do
24 end function summation
25
26 function inverseSum(number) result(operationResult)
27   implicit none
28   integer :: number, i
29   real :: operationResult
30   operationResult = 0
31
32   do i = 1, number
33     operationResult = operationResult + 1./i
34   end do
35 end function inverseSum
```