Program 17 Sum of integers from 1 to n

AIM:

To implement a prolog program to print the sum of integers from 1 to n.

PROGRAM:

sum(0, 0). sum(N, R):-N1 is N - 1, sum(N1, R1), R is R1 + N.

OUTPUT:

```
File Edit Terminal Prolog Help

GNU Prolog 1.5.0 (64 bits)
Compiled Jul 8 2021, 12:22:53 with gcc
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| ?- change_directory('C:/GNU-Prolog/bin').

yes
| ?- consult('C:/GNU-Prolog/bin/sum of integers.pl').
compiling C:/GNU-Prolog/bin/sum of integers.pl for byte code...
C:/GNU-Prolog/bin/sum of integers.pl compiled, 5 lines read - 742 bytes written, 15 ms

yes
| ?- sum(5, S).

S = 15 ?

yes
| ?- |
```

RESULT:

The Program has successfully been executed.