

Program:

```
sqr(X,Y) :- Y is X*X.
```

```
sqr :- nl,  
      write('Please enter a number or "stop": '),  
      read(X),  
      proc(X).
```

```
proc(stop) :- !.
```

```
proc(X) :- sqr(X,Y),  
          write('The square of '), write(X), write(' is '), write(Y),  
          sqr.
```

Query:

```
?- sqr.
```

```
Please enter a number or "stop": 3.
```

```
The square of 3 is 9
```

```
Please enter a number or "stop": -4.
```

```
The square of -4 is 16
```

```
Please enter a number or "stop": stop.
```

```
true.
```

Modified Program:

```
sqr(X,Y) :- Y is X*X.
```

```
start :- nl,  
        write('Please enter the name of an input file: '),  
        read(Inputfile),  
        write('Please enter the name of an output file: '),  
        read(Outputfile),  
        see(Inputfile),  
        tell(Outputfile),  
        sqr,  
        seen,  
        told.
```

```
sqr :- read(X),  
        proc(X).
```

```
proc(end_of_file) :- !.
```

```
proc(X) :- sqr(X,Y),  
           write('The square of '), write(X), write(' is '), write(Y),  
           nl,  
           sqr.
```