

## Program:

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

```
sqr :- nl, write('Please enter a number or "stop": '),  
      nl, 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: '),
        nl, read(Inputfile),
        nl, write('Please enter the name of an output file: '),
        nl, 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.
```