Assignment 11 – text answers

Exercise 1

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We will start with a basecase: fact (1).
The program will compute:
1*fact(1-1)
Since the integer 0 is less than 1, integer 1 is returned to function.
Our next case is fact(2)
The program will compute:
2*fact(2-1)
Which gives us the result 2 since 2*1*fact(1-1) = 2*1 = 2
Our next case is fact(3)
The program will compute:
3*fact(3-1)
Which is:
3*2*fact(2-1)
Which gives us the result 6 since 3*2*1 = 6
We can conclude that the function computes fact(n) = n*(n-1)*...*(n-n+1).
```