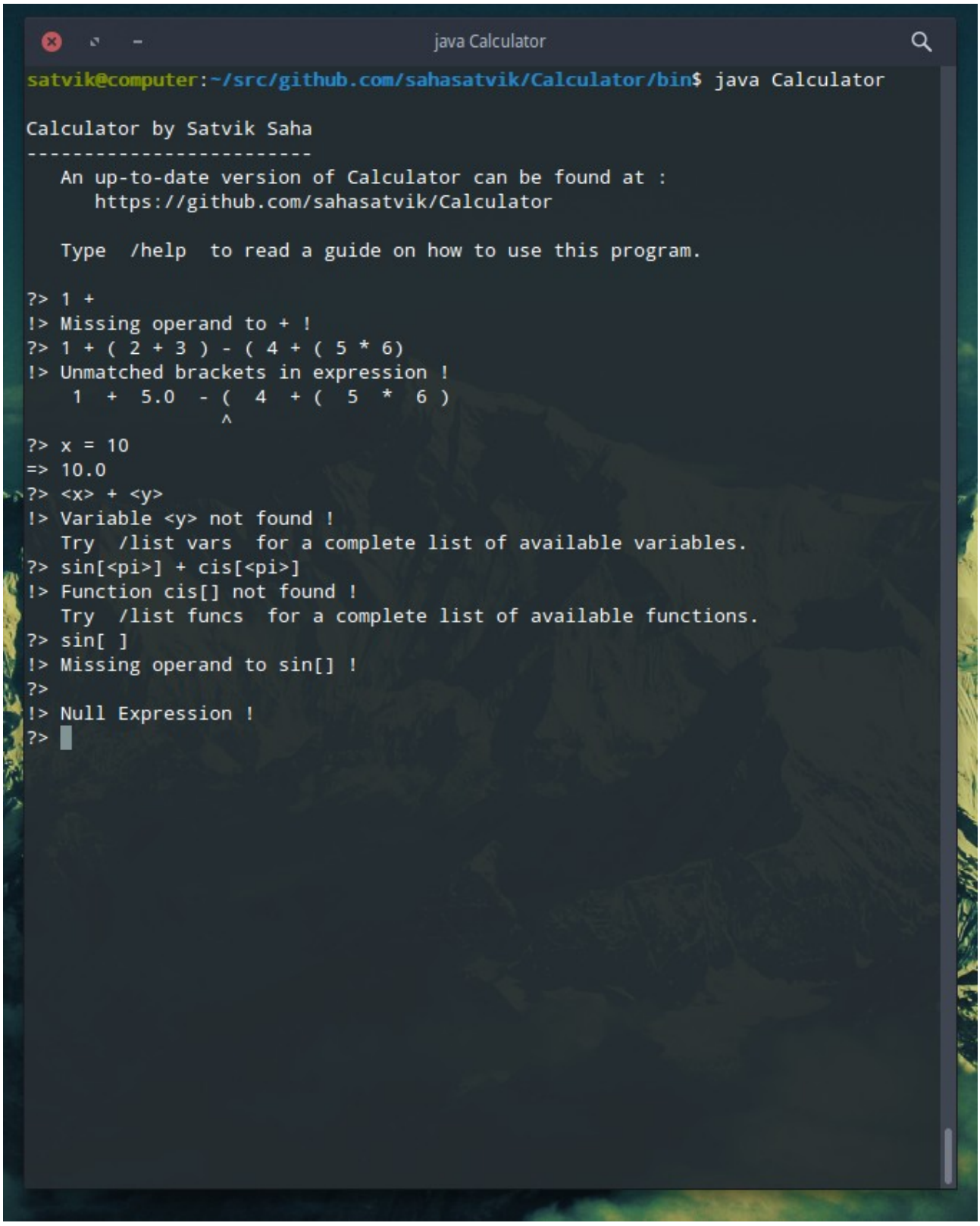

java Calculator
satvik@computer:~/src/github.com/sahasatvik/Calculator/bin$ java Calculator
Calculator by Satvik Saha
An up-to-date version of Calculator can be found at :
https://github.com/sahasatvik/Calculator
Type /help to read a guide on how to use this program.
?> /help cmds
$> Commands
'Calculator' interprets expressions starting with '/' as
'commands'. These are special expressions which are not parsed as
mathematical expressions, but as instructions to the 'Calculator'.
Enter '/list' for a complete list of valid commands.
?> /list cmds
$> Commands :
/help > general help
/help vars > help on Variables
/help funcs > help on Functions
/help cmds > help on Commands
/list vars > list variables
/list funcs > list functions
/list cmds or /list > list commands
/exit > exit Calculator
?>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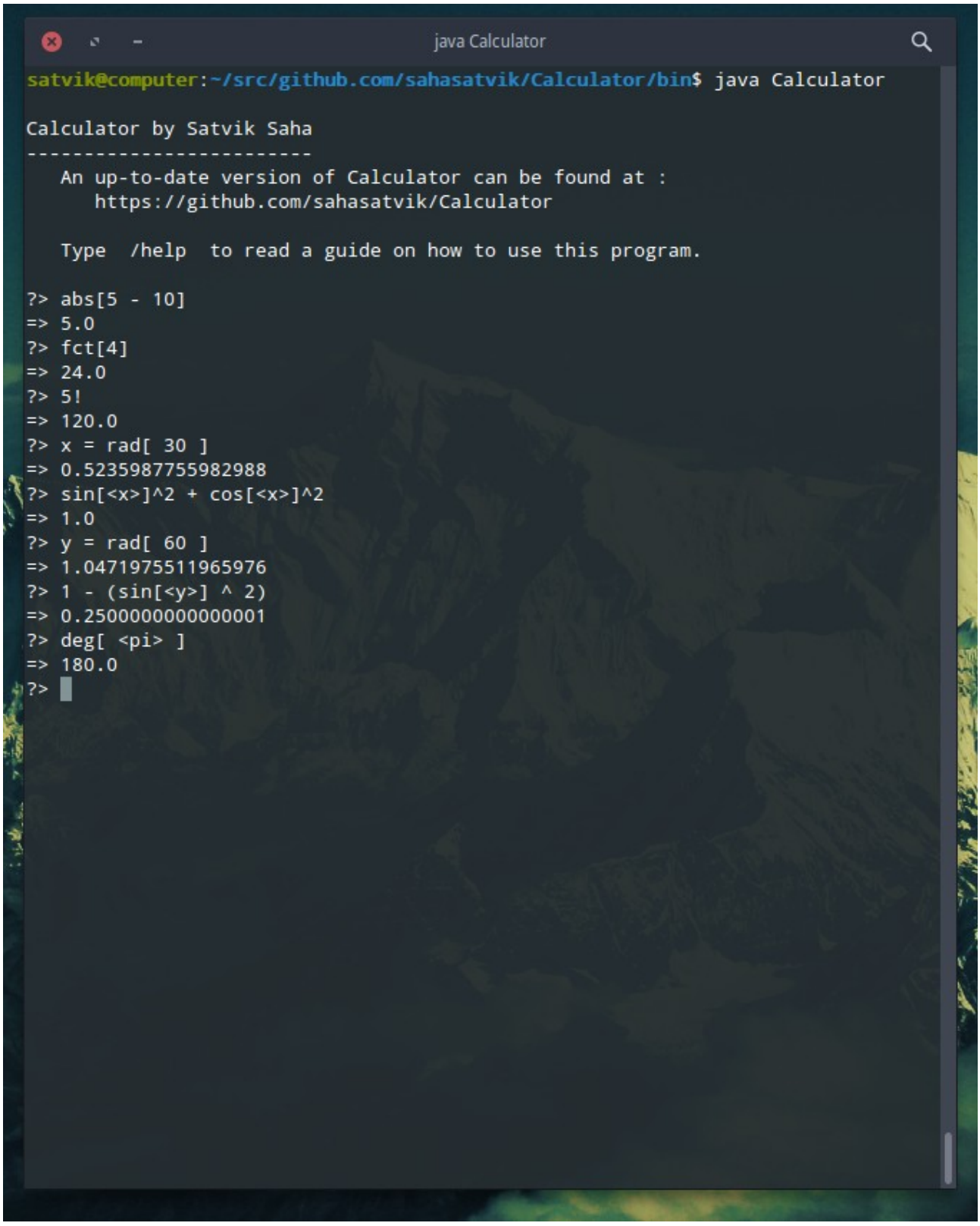
?> 1 +
!> Missing operand to + !
?> 1 + (2 + 3) - (4 + (5 * 6)
!> Unmatched brackets in expression !
1 + 5.0 - (4 + (5 * 6)
^
?> x = 10
=> 10.0
?> <x> + <y>
!> Variable <y> not found !
Try /list vars for a complete list of available variables.
?> sin[<pi>] + cis[<pi>]
!> Function cis[] not found !
Try /list funcs for a complete list of available functions.
?> sin[ ]
!> Missing operand to sin[] !
?>
!> Null Expression !
?>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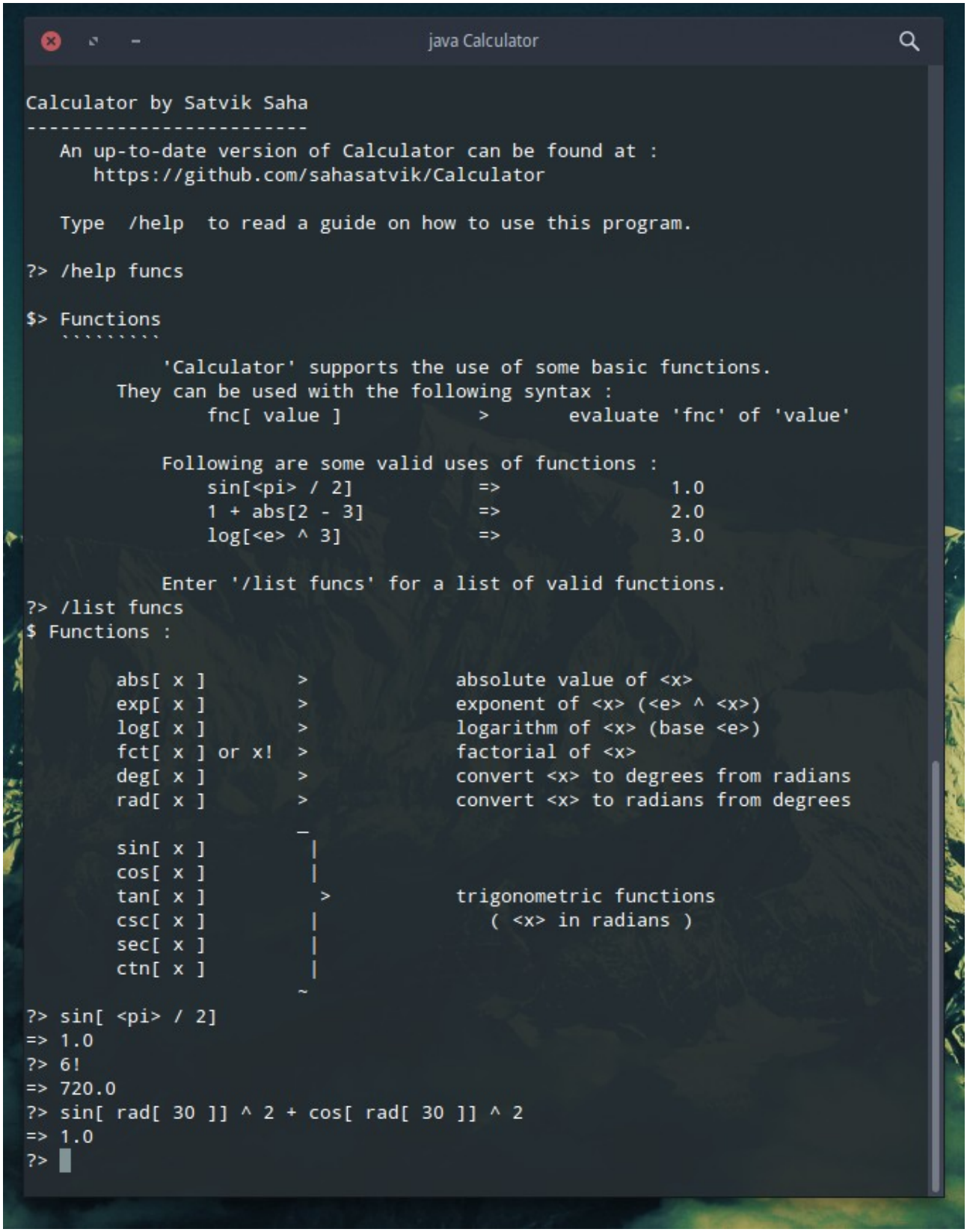
?> abs[5 - 10]
=> 5.0
?> fct[4]
=> 24.0
?> 5!
=> 120.0
?> x = rad[30]
=> 0.5235987755982988
?> sin[<x>]^2 + cos[<x>]^2
=> 1.0
?> y = rad[60]
=> 1.0471975511965976
?> 1 - (sin[<y>] ^ 2)
=> 0.2500000000000001
?> deg[<pi>]
=> 180.0
?>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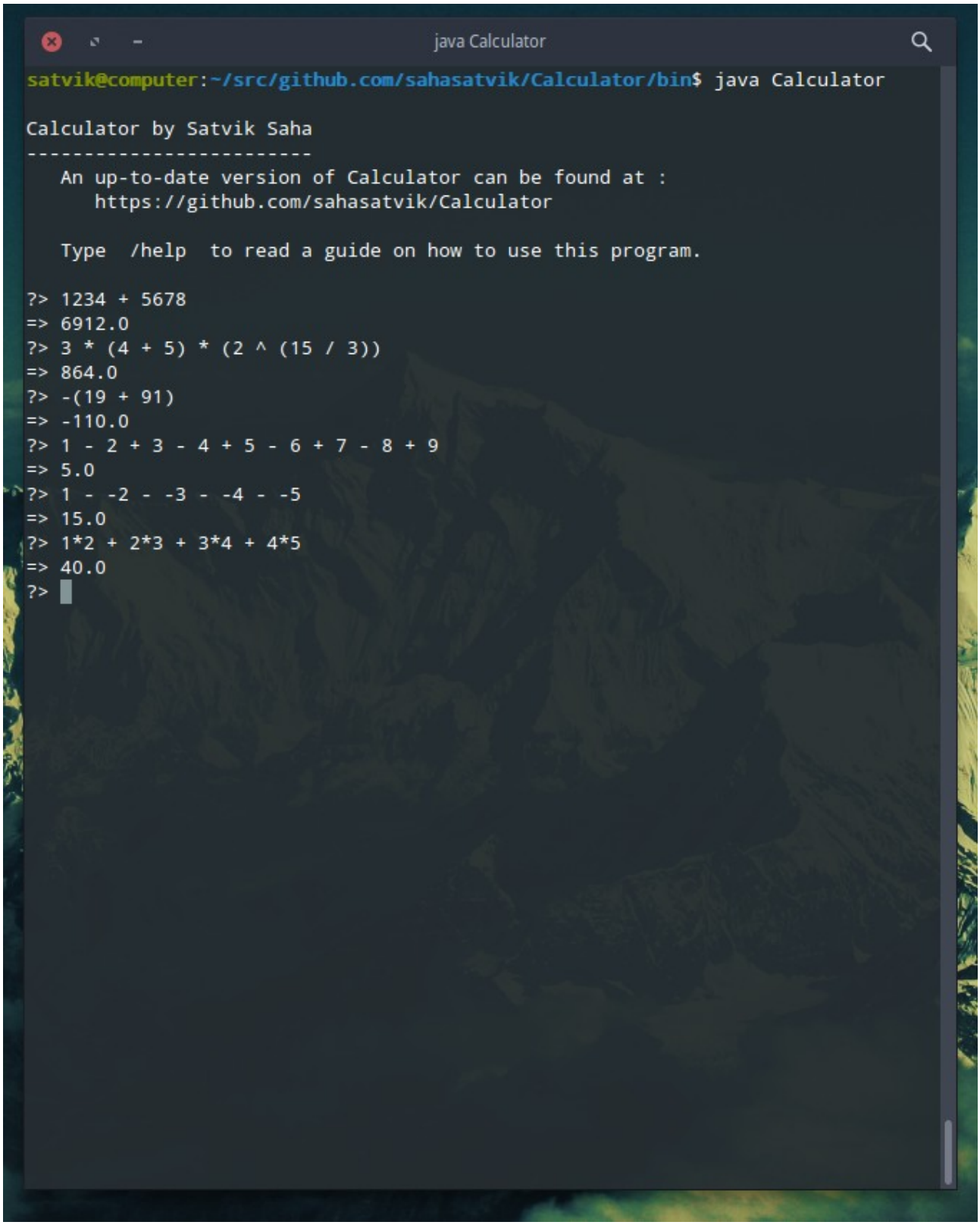
?> /help funcs
$> Functions
'Calculator' supports the use of some basic functions.
They can be used with the following syntax :
fnc[value] > evaluate 'fnc' of 'value'
Following are some valid uses of functions :
sin[<pi> / 2] => 1.0
1 + abs[2 - 3] => 2.0
log[<e> ^ 3] => 3.0
Enter '/list funcs' for a list of valid functions.
?> /list funcs
$ Functions :
abs[x] > absolute value of <x>
exp[x] > exponent of <x> (<e> ^ <x>)
log[x] > logarithm of <x> (base <e>)
fct[x] or x! > factorial of <x>
deg[x] > convert <x> to degrees from radians
rad[x] > convert <x> to radians from degrees
sin[x]
cos[x]
tan[x] > trigonometric functions
csc[x] (<x> in radians)
sec[x]
ctn[x]
?> sin[<pi> / 2]
=> 1.0
?> 6!
=> 720.0
?> sin[rad[30]] ^ 2 + cos[rad[30]] ^ 2
=> 1.0
?>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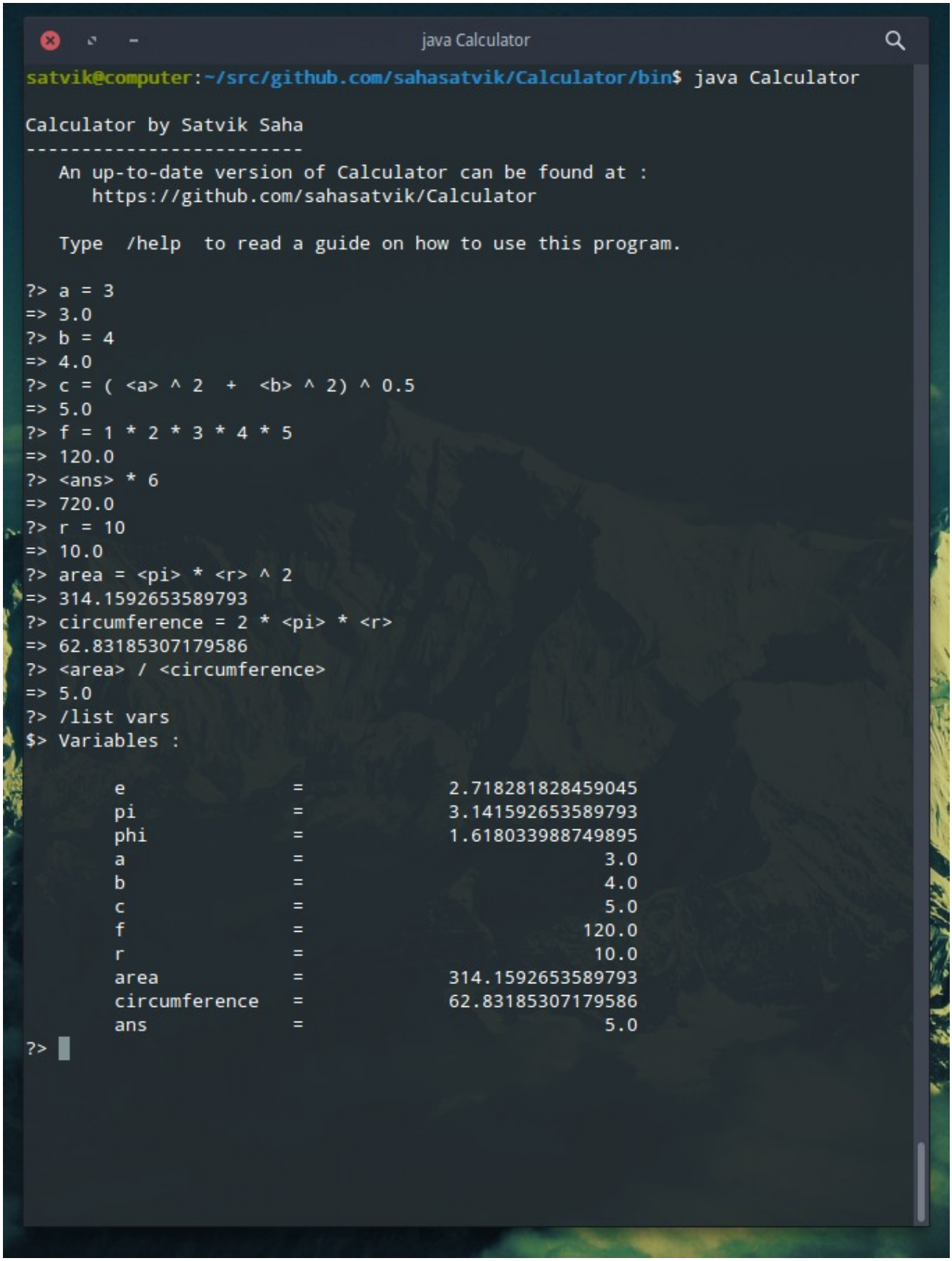
Type /help to read a guide on how to use this program.
?> 1234 + 5678
=> 6912.0
?> 3 * (4 + 5) * (2 ^ (15 / 3))
=> 864.0
?> -(19 + 91)
=> -110.0
?> 1 - 2 + 3 - 4 + 5 - 6 + 7 - 8 + 9
=> 5.0
?> 1 - -2 - -3 - -4 - -5
=> 15.0
?> 1*2 + 2*3 + 3*4 + 4*5
=> 40.0
?>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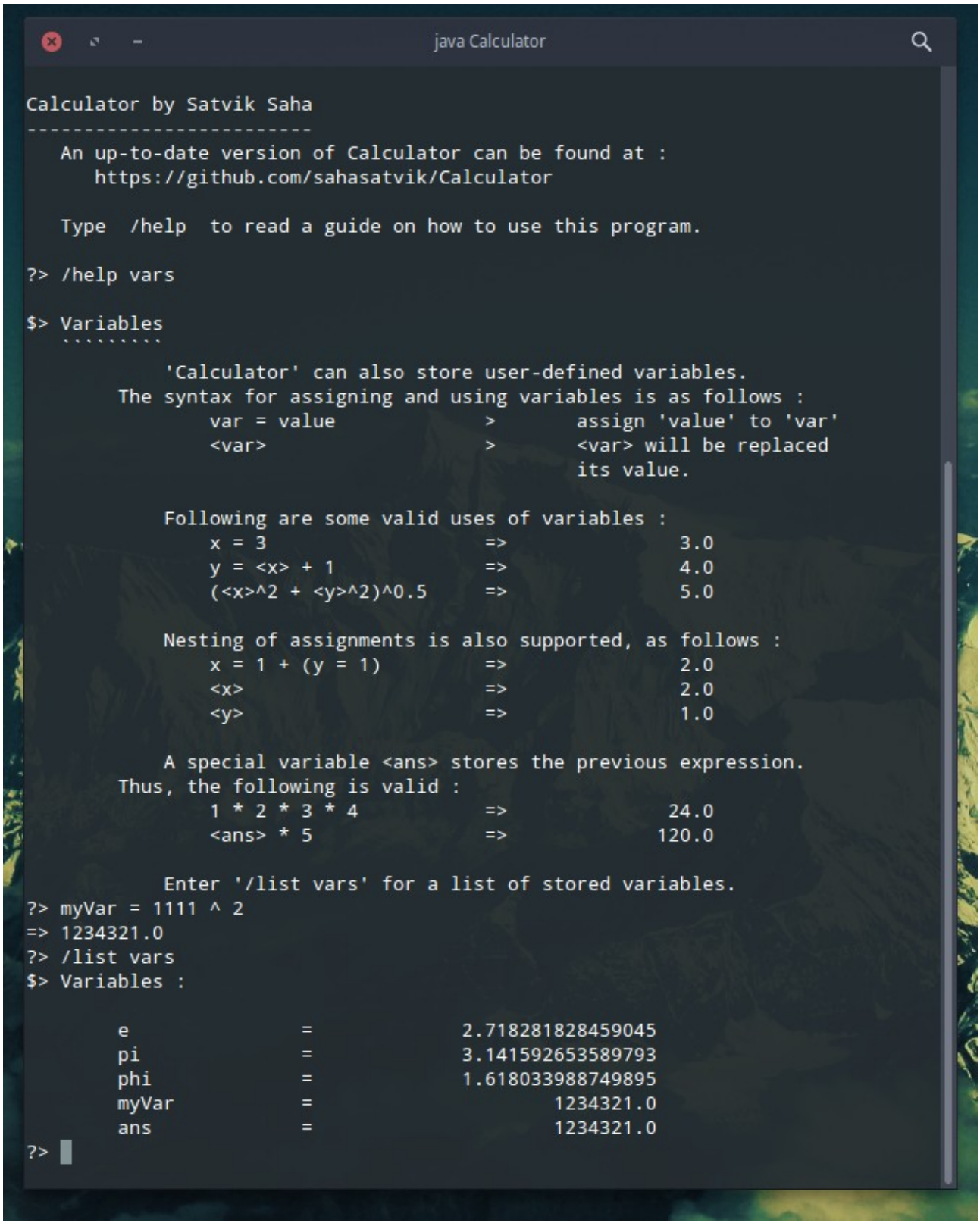
?> a = 3
=> 3.0
?> b = 4
=> 4.0
?> c = (<a> ^ 2 + <b> ^ 2) ^ 0.5
=> 5.0
?> f = 1 * 2 * 3 * 4 * 5
=> 120.0
?> <ans> * 6
=> 720.0
?> r = 10
=> 10.0
?> area = <pi> * <r> ^ 2
=> 314.1592653589793
?> circumference = 2 * <pi> * <r>
=> 62.83185307179586
?> <area> / <circumference>
=> 5.0
?> /list vars
$> Variables :
e = 2.718281828459045
pi = 3.141592653589793
phi = 1.618033988749895
a = 3.0
b = 4.0
c = 5.0
f = 120.0
r = 10.0
area = 314.1592653589793
circumference = 62.83185307179586
ans = 5.0
?>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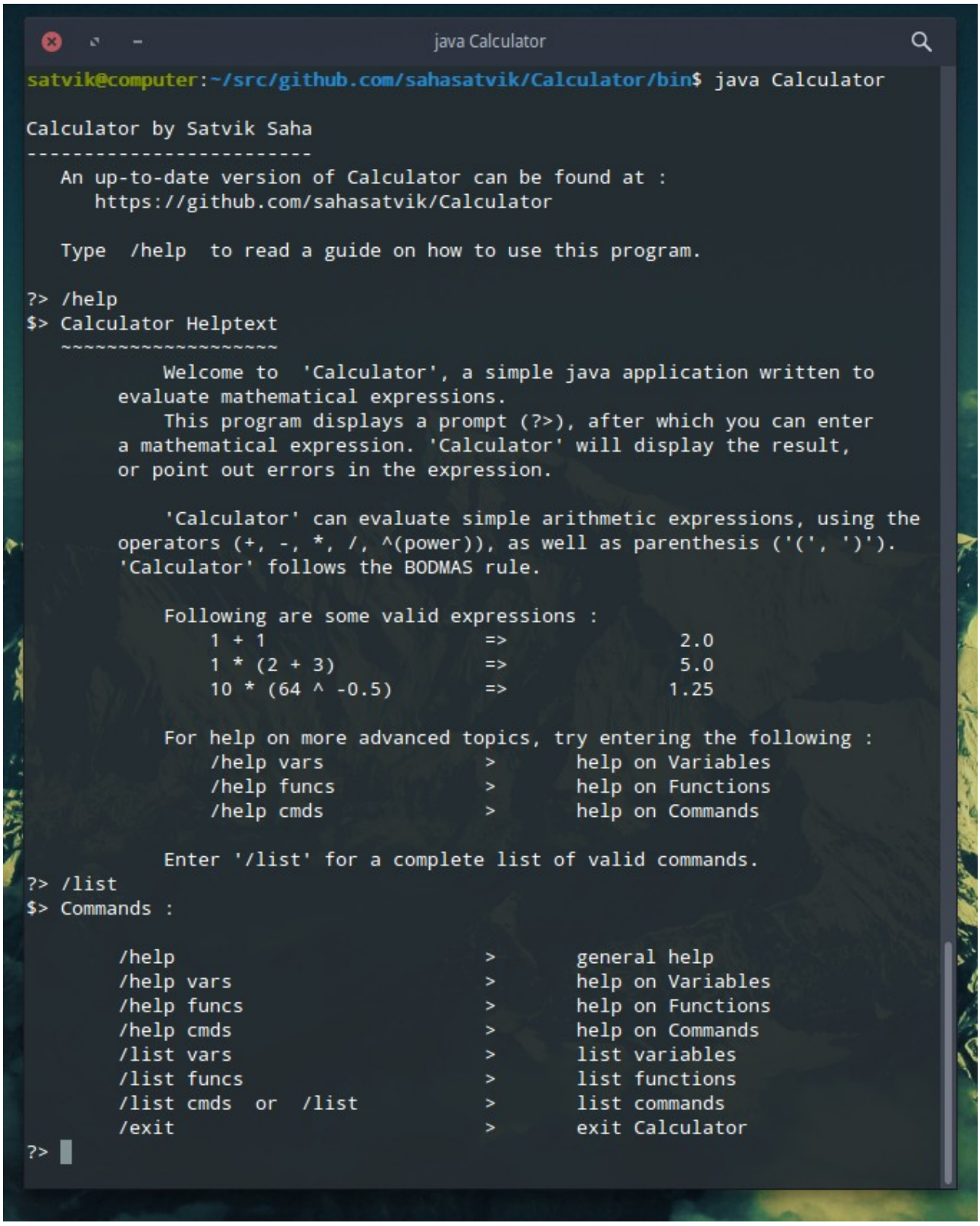
Type /help to read a guide on how to use this program.
?> /help vars
$> Variables
'Calculator' can also store user-defined variables.
The syntax for assigning and using variables is as follows :
var = value > assign 'value' to 'var'
<var> > <var> will be replaced
its value.
Following are some valid uses of variables :
x = 3 => 3.0
y = <x> + 1 => 4.0
(<x>^2 + <y>^2)^0.5 => 5.0
Nesting of assignments is also supported, as follows :
x = 1 + (y = 1) => 2.0
<x> => 2.0
<y> => 1.0
A special variable <ans> stores the previous expression.
Thus, the following is valid :
1 * 2 * 3 * 4 => 24.0
<ans> * 5 => 120.0
Enter '/list vars' for a list of stored variables.
?> myVar = 1111 ^ 2
=> 1234321.0
?> /list vars
$> Variables :
e = 2.718281828459045
pi = 3.141592653589793
phi = 1.618033988749895
myVar = 1234321.0
ans = 1234321.0
?>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Type /help to read a guide on how to use this program.
?> /help
$> Calculator Helptext
Welcome to 'Calculator', a simple java application written to evaluate mathematical expressions.
This program displays a prompt (?>), after which you can enter a mathematical expression. 'Calculator' will display the result, or point out errors in the expression.
'Calculator' can evaluate simple arithmetic expressions, using the operators (+, -, *, /, ^(power)), as well as parenthesis ('(', ')'). 'Calculator' follows the BODMAS rule.
Following are some valid expressions :
1 + 1 => 2.0
1 * (2 + 3) => 5.0
10 * (64 ^ -0.5) => 1.25
For help on more advanced topics, try entering the following :
/help vars > help on Variables
/help funcs > help on Functions
/help cmds > help on Commands
Enter '/list' for a complete list of valid commands.
?> /list
$> Commands :
/help > general help
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/list vars > list variables
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?>