Scilab 6.1.1 Console

File Edit Control Applications ?

Scilab 6.1.1 Console

```
enter the value for x=1

enter the value for y=2

enter the value for z=3


   2.236068    63.434949    3.

  "cartesian to cydrinical of p(r,p,z)"

-->
```

Variable Browser

| | Name | Value | Type | Visibility | Memory |
|---|---|---|---|---|---|
| | p | 63.4 | Double | local | 216 B |
| | r | 2.24 | Double | local | 216 B |
| | x | 1 | Double | local | 216 B |
| | y | 2 | Double | local | 216 B |
| | z | 3 | Double | local | 216 B |

Command History

```
5
// -- 10/02/2023 13:46:28 -- //
// -- 10/02/2023 13:47:03 -- //
1
2
4
// -- 10/02/2023 13:52:16 -- //
// -- 10/02/2023 13:54:01 -- //
// -- 10/02/2023 13:55:46 -- //
// -- 12/02/2023 15:56:48 -- //
1
2
3
```

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Scilab 6.1.1 Console

File Edit Control Applications ?

Scilab 6.1.1 Console

```
Enter the value of x=1

Enter the value of y=2

Enter the value of z=3


   3.7416574    36.699225    63.434949

  "Cartesian to Spherical coordinate system of S(rl teta phi) ="

--> 
```

Variable Browser

| | Name | Value | Type | Visibility | Memory |
|---|---|---|---|---|---|
| | phi | 63.4 | Double | local | 216 B |
| | r1 | 3.74 | Double | local | 216 B |
| | teta | 36.7 | Double | local | 216 B |
| | x | 1 | Double | local | 216 B |
| | y | 2 | Double | local | 216 B |
| | z | 3 | Double | local | 216 B |

Command History

```
1
2
4
// -- 10/02/2023 13:52:16 -- //
// -- 10/02/2023 13:54:01 -- //
// -- 10/02/2023 13:55:46 -- //
// -- 12/02/2023 15:56:48 -- //
1
2
3
1
2
3
```

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Scilab 6.1.1 Console

File Edit Control Applications ?

Scilab 6.1.1 Console

```
Enter the value of r=1

Enter the value of teta=45

Enter the value of phi=45


   0.5    0.5    0.7071068

  "spherical to Cartesian coordinate system of S(x, y, z) ="

--> 
```

Variable Browser

| | Name | Value | Type | Visibility | Memory |
|---|---|---|---|---|---|
| | phi | 45 | Double | local | 216 B |
| | r | 1 | Double | local | 216 B |
| | teta | 45 | Double | local | 216 B |
| | x | 0.5 | Double | local | 216 B |
| | y | 0.5 | Double | local | 216 B |
| | z | 0.707 | Double | local | 216 B |

Command History

```
4
// -- 10/02/2023 13:52:16 -- //
// -- 10/02/2023 13:54:01 -- //
// -- 10/02/2023 13:55:46 -- //
// -- 12/02/2023 15:56:48 -- //
1
2
3
1
2
3
1
45
```

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Scilab 6.1.1 Console

File Edit Control Applications ?

Scilab 6.1.1 Console

```
Enter the value of rho=1

Enter the value of phi=45

Enter the value of z=2


   0.7071068    0.7071068    2.

  "Cylindrical to Cartesian coordinate system of S(x, y, z) ="

-->
```

Variable Browser

| | Name | Value | Type | Visibility | Memory |
|---|---|---|---|---|---|
| | phi | 45 | Double | local | 216 B |
| | rho | 1 | Double | local | 216 B |
| | x | 0.707 | Double | local | 216 B |
| | y | 0.707 | Double | local | 216 B |
| | z | 2 | Double | local | 216 B |

Command History

```
// -- 10/02/2023 13:55:46 -- //
// -- 12/02/2023 15:56:48 -- //
1
2
3
1
2
3
1
45
1
45
2
```

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Scilab 6.1.1 Console

File Edit Control Applications ?

Scilab 6.1.1 Console

```
Enter the value of charge q=4e-8

Enter the value of distance b/w two charges r=10e-2

Enter the value of relative permittivity of the medium er=1


   0.0000003

  "Electric Flux Density D=___ C/m^2"

   35950.970

  "Electric Field E= ___ Newtons/Coulombs or V/m"

--> |
```

Variable Browser

| | Name | Value | Type | Visibility | Memory |
|---|---|---|---|---|---|
| | D | 3.18e-07 | Double | local | 216 B |
| | E | 3.6e+04 | Double | local | 216 B |
| | e0 | 8.85e-12 | Double | local | 216 B |
| | er | 1 | Double | local | 216 B |
| | q | 4e-08 | Double | local | 216 B |
| | r | 0.1 | Double | local | 216 B |

Command History

```
2
3
1
45
1
45
2
4e-8
10e-8
1
4e-8
10e-2
1
```

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Scilab 6.1.1 Console

File Edit Control Applications ?

Scilab 6.1.1 Console

```
Enter the value of charge q1=4e-8

Enter the value of charge q2=6e-5

Enter the value of distance b/w two charges r=10e-2

Enter the value of relative permittivity ofthe medium er=1


   2.1570582

  "Force of COLUMBS LAW F= ___Newtons"

--> 
```

Variable Browser

| | Name | Value | Type | Visibility | Memory |
|---|---|---|---|---|---|
| | F | 2.16 | Double | local | 216 B |
| | e0 | 8.85e-12 | Double | local | 216 B |
| | er | 1 | Double | local | 216 B |
| | q1 | 4e-08 | Double | local | 216 B |
| | q2 | 6e-05 | Double | local | 216 B |
| | r | 0.1 | Double | local | 216 B |

Command History

```
1
45
2
4e-8
10e-8
1
4e-8
10e-2
1
4e-8
6e-5
10e-2
1
```

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Scilab 6.1.1 Console

File Edit Control Applications ?

Scilab 6.1.1 Console

```
Enter the value of charge q:4e-8

Enter the value of distance b/w two charges r:2

Enter the value of length l:4


   1.000D-08

  "Linear Charge Density L:C/meter"

   7.958D-10

  "Surface Charge Density S:C/meter^2"

   1.194D-09

  "Volume Charge Density V:C/meter^3"

--> 
```

Variable Browser

| | Name | Value | Type | Visibility | Memory |
|---|---|---|---|---|---|
| | L | 1e-08 | Double | local | 216 B |
| | S | 7.96e-10 | Double | local | 216 B |
| | V | 1.19e-09 | Double | local | 216 B |
| | l | 4 | Double | local | 216 B |
| | q | 4e-08 | Double | local | 216 B |
| | r | 2 | Double | local | 216 B |

Command History

```
4e-8
10e-8
1
4e-8
10e-2
1
4e-8
6e-5
10e-2
1
4e-8
2
4
```

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Scilab 6.1.1 Console

File Edit Control Applications ?

Scilab 6.1.1 Console

```
Enter the value of charge Q:1e-9

Enter the value of Point Ax:1

Enter the value of Point Ay:2

Enter the value of Point Bx:4

Enter the value of Point By:5


   2.6157911

  "ELECTRIC POTENTIAL DIFFERENCE BETWEEN TWO POINTS:"

--> 
```

Variable Browser

| | Name | Value | Type | Visibility | Memory |
|---|---|---|---|---|---|
| | EPD | 2.62 | Double | local | 216 B |
| | Q | 1e-09 | Double | local | 216 B |
| | e0 | 8.85e-12 | Double | local | 216 B |
| | pointAx | 1 | Double | local | 216 B |
| | pointAy | 2 | Double | local | 216 B |
| | pointBx | 4 | Double | local | 216 B |
| | pointBy | 5 | Double | local | 216 B |
| | r1 | 2.24 | Double | local | 216 B |

Command History

```
1
4e-8
6e-5
10e-2
1
4e-8
2
4
1e-9
1
2
4
5
```

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Scilab 6.1.1 Console

File Edit Control Applications ?

Scilab 6.1.1 Console

```
Enter the value of capacitance area A:0.01

Enter the value of thickness of medium-1 d1:0.002

Enter the value of thickness of medium-2 d2:0.003

Enter the value of thickness of medium-3 d3:0

Enter the value of relative permittivity of medium-1 er1:4

Enter the value of relative permittivity of medium-1 er2:3

Enter the value of relative permittivity of medium-1 er3:1


   5.903D-11

  "Capacitance of parallel plate capacitor in three different dielectric media :---Faraday"

-->
```

Variable Browser

| | Name | Value | Type | Visibility | Memory |
|---|---|---|---|---|---|
| | A | 0.01 | Double | local | 216 B |
| | C | 5.9e-11 | Double | local | 216 B |
| | d1 | 0.002 | Double | local | 216 B |
| | d2 | 0.003 | Double | local | 216 B |
| | d3 | 0 | Double | local | 216 B |
| | e0 | 8.85e-12 | Double | local | 216 B |
| | er1 | 4 | Double | local | 216 B |
| | er2 | 3 | Double | local | 216 B |

Command History

```
4
1e-9
1
2
4
5
0.01
0.002
0.003
0
4
3
1
```

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Scilab 6.1.1 Console

File Edit Control Applications ?

Scilab 6.1.1 Console

```
Enter the value of radius of medium-1 r1:0.12

Enter the value of radius of medium-2 r2:0.16

Enter the value of relative permittivity of medium - er1:1


   1.780D-11

  "Capacitance of an isolated sphere :---Faraday"

   5.341D-11

  "Capacitance of two concentric sphere :---Faraday"

-->
```

Variable Browser

| | Name | Value | Type | Visibility | Memory |
|---|---|---|---|---|---|
| | concentric | 5.34e-11 | Double | local | 216 B |
| | e0 | 8.85e-12 | Double | local | 216 B |
| | er | 1 | Double | local | 216 B |
| | isolated | 1.78e-11 | Double | local | 216 B |
| | r1 | 0.12 | Double | local | 216 B |
| | r2 | 0.16 | Double | local | 216 B |

Command History

```
2
4
5
0.01
0.002
0.003
0
4
3
1
0.12
0.16
1
```

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Scilab 6.1.1 Console

File Edit Control Applications ?

Scilab 6.1.1 Console

```
Enter the value of radious of medium-1 r1:0.02

Enter the value of radious of medium-2 r2:0.04

Enter the value of relative permittivity of medium - er1:2


   1.605D-10

  "Capacitance of co-axial cable per unit length :---Faraday/meter"

-->
```

Variable Browser

| Name | Value | Type | Visibility | Memory |
|---|---|---|---|---|
| coaxial | 1.61e-10 | Double | local | 216 B |
| e0 | 8.85e-12 | Double | local | 216 B |
| er | 2 | Double | local | 216 B |
| r1 | 0.02 | Double | local | 216 B |
| r2 | 0.04 | Double | local | 216 B |

Command History

```
0.01
0.002
0.003
0
4
3
1
0.12
0.16
1
0.02
0.04
2
```

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Scilab 6.1.1 Console

File Edit Control Applications ?

Scilab 6.1.1 Console

```
Enter the value of relative permittivity of medium-er1:3

Enter the value of relative permittivity of medium-er2:1

Enter the value of teta2 of medium - teta2:45


   71.565051

  "teta1:"

-->
```

Variable Browser

| | Name | Value | Type | Visibility | Memory |
|---|---|---|---|---|---|
| | er1 | 3 | Double | local | 216 B |
| | er2 | 1 | Double | local | 216 B |
| | teta1 | 71.6 | Double | local | 216 B |
| | teta2 | 45 | Double | local | 216 B |

Command History

```
0
4
3
1
0.12
0.16
1
0.02
0.04
2
3
1
45
```

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Scilab 6.1.1 Console

File Edit Control Applications ?

Scilab 6.1.1 Console

```
Enter the value of relative permeability of medium-mr2:0.99

Enter the value of teta2 of medium-teta1:60

Enter the value of teta2 of medium-teta2:30


   2.9700000

  "relative permeability of medium-mr1:"

   0.0000037

  "permeability of medium-m1:"

-->
```

Variable Browser

| | Name | Value | Type | Visibility | Memory |
|---|---|---|---|---|---|
| | m1 | 3.73e-06 | Double | local | 216 B |
| | mr1 | 2.97 | Double | local | 216 B |
| | mr2 | 0.99 | Double | local | 216 B |
| | teta1 | 60 | Double | local | 216 B |
| | teta2 | 30 | Double | local | 216 B |

Command History

```
1
0.12
0.16
1
0.02
0.04
2
3
1
45
0.99
60
30
```

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Scilab 6.1.1 Console

File Edit Control Applications ?

Scilab 6.1.1 Console

```
Enter the value of magnetic field-H:3e-2

Enter the value of relative permeability-mr:250

Enter the value of magnetic flux-phi:7

Enter the value of rectangle length-l:50e-2

Enter the value of rectangle width-w:20e-2


   70.

  " Magnetic flux density-Binphi:Wb/m^2"

   0.0000094

  " Magnetic flux density-Binfield:Wb/m^2"

-->
```

Variable Browser

| Name | Value | Type | Visibility | Memory |
|---|---|---|---|---|
| Binfield | 9.42e-06 | Double | local | 216 B |
| Binphi | 70 | Double | local | 216 B |
| H | 0.03 | Double | local | 216 B |
| l | 0.5 | Double | local | 216 B |
| mr | 250 | Double | local | 216 B |
| phi | 7 | Double | local | 216 B |
| w | 0.2 | Double | local | 216 B |

Command History

```
0.04
2
3
1
45
0.99
60
30
3e-2
250
7
50e-2
20e-2
```

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