experiment 1 cartesian to cylinder.sce (C:\Users\Admin\experiment 1 cartesian to cylinder.sce) - SciNotes

File Edit Format Options Window Execute ?

experiment 1 cartesian to cylinder.sce (C:\Users\Admin\experiment 1 cartesian to cylinder.sce) - SciNotes

Spherical to Cartesian coordinate system.sce | exp:7 Electric potential difference

exp:9 Capacitance of an isolated and concentric sphere.sce | exp 10 Capacitance of co-axial cable p

exp 4 electric field and electric flux density in sphere.sce | exp 5 Coulomb's Law.sce

experiment 1 cartesian to cylinder.sce | exp 1 cartesian to spherical coordinate system.sce

```
1 clc;
2 clear;
3 x=input ('Enter the value of x=');
4 y=input ('Enter the value of y=');
5 z=input ('Enter the value of z=');
6 r=sqrt(x^2+y^2);
7 p=atand(y/x);
8 disp([r p z], 'Cartesian to Cylindrical
9
```

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


   2.236068   63.434949   3.

  "Cartesian to Cylindrical coordinate system of P(r,p,z) ="
-->
```

exp 1 cartesian to spherical coordinate system.sce (C:\Users\Admin\exp 1 cartesian to spherical coordinate system.sce) - SciNotes

File Edit Format Options Window Execute ?

exp 1 cartesian to spherical coordinate system.sce (C:\Users\Admin\exp 1 cartesian to spherical coordinate system.sce) - SciNotes

Spherical to Cartesian coordinate system.sce | exp:7 Electric potential difference between two points in free space.sce

exp:9 Capacitance of an isolated and concentric sphere.sce | exp 10 Capacitance of co-axial cable per unit length.sce | exp :11 Diele

exp 4 electric field and electric flux density in sphere.sce | exp 5 Coulomb's Law.sce | exp: 6 Continuous Charge Distribution

experiment 1 cartesian to cylinder.sce | exp 1 cartesian to spherical coordinate system.sce | exp:3 (ii)transformation cylindric

```
1 x=input ('Enter the value of x=');
2 y=input ('Enter the value of y=');
3 z=input ('Enter the value of z=');
4 r1 = sqrt(x^2+y^2+z^2);
5 teta = acosd(z/r1);
6 phi = atand(y/x);
7 disp([r1 teta phi], 'Cartesian to Spherical coordinate
8
```

Scilab 6.1.1 Console

File Edit Control Applications ?

Scilab 6.1.1 Console

```
Startup execution:
  loading initial environment

--> exec('C:\Users\Admin\exp 1 cartesian to spherical coordinate
Enter the value of x=1

Enter the value of y=3

Enter the value of z=-3


   4.3588989   133.49152   71.565051

  "Cartesian to Spherical coordinate system of S(r1 teta phi) ="

-->
```

exp:2 (ii)transformation cylindrical to cartesian coordinate system.sce (C:\Users\Admin\ exp:2 (ii)transformation cylindrical to cartesian coordinate system.sce) - SciNotes

File Edit Format Options Window Execute ?

exp:2 (ii)transformation cylindrical to cartesian coordinate system.sce (C:\Users\Admin\ exp:2 (ii)transformation cylindrical to cartesian coordinate sys

Spherical to Cartesian coordinate system.sce | exp:7 Electric potential difference between two points in free space.sce

exp:9 Capacitance of an isolated and concentric sphere.sce | exp 10 Capacitance of co-axial cable per unit length.sce | exp :11 Diele

exp 4 electric field and electric flux density in sphere.sce | exp 5 Coulomb's Law.sce | exp: 6 Continuous Charge Distribution

experiment 1 cartesian to cylinder.sce | exp 1 cartesian to spherical coordinate system.sce | exp:3 (ii)transformation cylindric

```
1  clc;
2  clear;
3  rho=input ('Enter the value of rho=');
4  teta=input ('Enter the value of teta=');
5  phi=input ('Enter the value of phi=');
6  x = rho * sind(teta) * cosd(phi);
7  y = rho * sind(teta) * sind(phi);
8  z = rho * cosd(teta);
9  disp([x y z], 'Cylindrical to Cartesian coordinate sy
10
```

Scilab 6.1.1 Console

File Edit Control Applications ?

Scilab 6.1.1 Console

```
Enter the value of rho=1

Enter the value of teta=45

Enter the value of phi=2


   0.706676   0.0246777   0.7071068

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

-->
```

Opera Browser

Type here to search

27°C Mostly cloudy ENG 9:07 PM 10-Feb-23

Spherical to Cartesian coordinate system.sce (C:\Users\Admin\Spherical to Cartesian coordinate system.sce) - SciNotes

File Edit Format Options Window Execute ?

Spherical to Cartesian coordinate system.sce (C:\Users\Admin\Spherical to Cartesian coordinate system.sce) - SciNotes

exp:9 Capacitance of an isolated and concentric sphere.sce | exp 10 Capacitance of co-axial cable per unit length.sce | exp :11 Dielectric - free space boundary condition in Electric field.sce | exp:13 Magnetic flux density in ferromagnetic materials.sce

exp 4 electric field and electric flux density in sphere.sce | exp 5 Coulomb's Law.sce | exp: 6 Continuous Charge Distribution in electric field.sce | exp:8 Capacitance of parallel plate capacitor in three different dielectric material.sce

experiment 1 cartesian to cylinder.sce | exp 1 cartesian to spherical coordinate system.sce | exp:3 (ii)transformation cylindrical to cartesian coordinate system.sce | exp:2 (ii)transformation cylindrical to cartesian coordinate system.sce

Spherical to Cartesian coordinate system.sce | exp:7 Electric potential difference between two points in free space.sce | exp: 12 Boundary condition between two different dielectric media in magnetic field.sce

```
1  clc;
2  clear;
3  rho=input ('Enter the value of rho=');
4  teta=input ('Enter the value of teta=');
5  phi=input ('Enter the value of phi=');
6  x = rho * sind(teta) * cosd(phi);
7  y = rho * sind(teta) * sind(phi);
8  z = rho * cosd(teta);
9  disp([x y z], 'spherical to Cartesian coordinate sy
10
```

Scilab 6.1.1 Console

File Edit Control Applications ?

Scilab 6.1.1 Console

```
Enter the value of rho=1

Enter the value of teta=45

Enter the value of phi=45


   0.5    0.5    0.7071068
```

Type here to search

27°C Mostly cloudy ENG 9:31 PM 10-Feb-23

exp 4 electric field and electric flux density in sphere.sce (C:\Users\Admin\exp 4 electric field and electric flux density in sphere.sce) - SciNotes

File Edit Format Options Window Execute ?

exp 4 electric field and electric flux density in sphere.sce (C:\Users\Admin\exp 4 electric field and electric flux density in sphere.sce) - SciNotes

experiment 1 cartesian to cylinder.sce | exp 1 cartesian to spherical coordinate system.sce | exp:3 (ii)transformation cylindric

Spherical to Cartesian coordinate system.sce | exp:7 Electric potential difference between two points in free space.sce

exp:9 Capacitance of an isolated and concentric sphere.sce | exp 10 Capacitance of co-axial cable per unit length.sce | exp :11 Diele

exp 4 electric field and electric flux density in sphere.sce | exp 5 Coulomb's Law.sce | exp: 6 Continuous Charge Distribution

```
1  clc;
2  clear;
3  q = input ('Enter the value of charge q=');
4  r = input ('Enter the value of distance b/w two charg
5  er = input ('Enter the value of relative permittivity
6  e0 = 8.854e-12;
7  D = (q) / (4 * %pi * r^2);
8  E = (q) / (4 * %pi * e0 * er * r^2);
9  disp (D,'Electric Flux Density D=___ C/m^2');
10 disp (E,'Electric Field E= ___ Newtons/Coulombs or V/
11
```

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"

-->
```

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27°C Mostly cloudy ENG 9:11 PM 10-Feb-23

exp 5 Coulomb's Law.sce (C:\Users\Admin\exp 5 Coulomb's Law.sce) - SciNotes

File Edit Format Options Window Execute ?

exp 5 Coulomb's Law.sce (C:\Users\Admin\exp 5 Coulomb's Law.sce) - SciNotes

experiment 1 cartesian to cylinder.sce | exp 1 cartesian to spherical coordinate system.sce | exp:3 (ii)transformation cylindric

Spherical to Cartesian coordinate system.sce | exp:7 Electric potential difference between two points in free space.sce

exp:9 Capacitance of an isolated and concentric sphere.sce | exp 10 Capacitance of co-axial cable per unit length.sce | exp :11 Diele

exp 4 electric field and electric flux density in sphere.sce | exp 5 Coulomb's Law.sce | exp: 6 Continuous Charge Distribution

```
1  clc;
2  clear;
3  q1 = input ('Enter the value of charge q1=');
4  q2 = input ('Enter the value of charge q2=');
5  r = input ('Enter the value of distance b/w two charg
6  er = input ('Enter the value of relative permittivity
7  e0 = 8.854e-12;
8  F = (q1 * q2) / (4 * %pi * e0 * er * r^2);
9  disp (F,'Force of COLUMBS LAW F= ___Newtons');
10
```

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"

-->
```

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27°C Mostly cloudy ENG 9:12 PM 10-Feb-23

exp: 6 Continuous Charge Distribution in electric field.sce (C:\Users\Admin\exp: 6 Continuous Charge Distribution in electric field.sce) - SciNotes

File Edit Format Options Window Execute ?

exp: 6 Continuous Charge Distribution in electric field.sce (C:\Users\Admin\exp: 6 Continuous Charge Distribution in electric field.sce) - SciNotes

experiment 1 cartesian to cylinder.sce | exp 1 cartesian to spherical coordinate system.sce | exp:3 (ii)transformation cylindric

Spherical to Cartesian coordinate system.sce | exp:7 Electric potential difference between two points in free space.sce

exp:9 Capacitance of an isolated and concentric sphere.sce | exp 10 Capacitance of co-axial cable per unit length.sce | exp :11 Diele

exp 4 electric field and electric flux density in sphere.sce | exp 5 Coulomb's Law.sce | exp: 6 Continuous Charge Distribution

```
1  clc;
2  clear;
3  q = input ('Enter the value of charge q:');
4  r = input ('Enter the value of distance b/w two charg
5  l = input ('Enter the value of length l:');
6  rhoL = q/l;
7  rhoS = q/(4 * %pi *r^2);
8  rhoV = (q/((4/3) * %pi *r^3));
9  disp (rhoL, 'Linear Charge Density rhoL:_____C/meter
10 disp (rhoS, 'Surface Charge Density rhoS:_____C/mete
11 disp (rhoV, 'Volume Charge Density rhoV:_____C/meter
12
```

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 rhoL:_____C/meter"

   7.958D-10

  "Surface Charge Density rhoS:_____C/meter^2"

   1.194D-09

  "Volume Charge Density rhoV:_____C/meter^3"

-->
```

Type here to search

27°C Mostly cloudy ENG 9:13 PM 10-Feb-23

exp:7 Electric potential difference between two points in free space.sce (C:\Users\Admin\exp:7 Electric potential difference between two points in free space.sce) - SciNotes

File Edit Format Options Window Execute ?

exp:7 Electric potential difference between two points in free space.sce (C:\Users\Admin\exp:7 Electric potential difference between two points in fr

exp:9 Capacitance of an isolated and concentric sphere.sce | exp 10 Capacitance of co-axial cable per unit length.sce | exp :11 Diele

exp 4 electric field and electric flux density in sphere.sce | exp 5 Coulomb's Law.sce | exp: 6 Continuous Charge Distribution

experiment 1 cartesian to cylinder.sce | exp 1 cartesian to spherical coordinate system.sce | exp:3 (ii)transformation cylindric

Spherical to Cartesian coordinate system.sce | exp:7 Electric potential difference between two points in free space.sce

```
1  clc;
2  clear;
3  Q = input ('Enter the value of charge Q:');
4  pointAx = input ('Enter the value of Point Ax:');
5  pointAy = input ('Enter the value of Point Ay:');
6  pointBx = input ('Enter the value of Point Bx:');
7  pointBy = input ('Enter the value of Point By:');
8  e0 = 8.854e-12;
9  r1 = sqrt (pointAx^2 + pointAy^2);
10 r2 = sqrt (pointBx^2 + pointBy^2);
11 v1 = Q/(4* %pi * e0 * r1);
12 v2 = Q/(4* %pi * e0 * r2);
13 EPD = v1 - v2;
14 disp (EPD, 'ELECTRIC POTENTIAL DIFFERENCE BETWEEN TWO
15
```

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 :----Volts"

-->
```

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27°C Mostly cloudy ENG 9:14 PM 10-Feb-23

exp:8 Capacitance of parallel plate capacitor in three different dielectric material.sce (C:\Users\Admin\exp:8 Capacitance of parallel plate capacitor in three different dielectric material.sce) - SciNotes

File Edit Format Options Window Execute ?

exp:8 Capacitance of parallel plate capacitor in three different dielectric material.sce (C:\Users\Admin\exp:8 Capacitance of parallel plate capacitor in

experiment 1 cartesian to cylinder.sce | exp 1 cartesian to spherical coordinate system.sce | exp:3 (ii)transformation cylindric

Spherical to Cartesian coordinate system.sce | exp:7 Electric potential difference between two points in free space.sce

exp:9 Capacitance of an isolated and concentric sphere.sce | exp 10 Capacitance of co-axial cable per unit length.sce | exp :11 Diele

exp 4 electric field and electric flux density in sphere.sce | exp 5 Coulomb's Law.sce | exp: 6 Continuous Charge Distribution

```
1  clc;
2  clear;
3  A = input ('Enter the value of capacitance area A:');
4  d1 = input ('Enter the value of thickness of medium-1
5  d2 = input ('Enter the value of thickness of medium-2
6  d3 = input ('Enter the value of thickness of medium-3
7  er1 = input ('Enter the value of relative permittivit
   lue of relative permittivity of medium-1 er2:'); er3
   ty of medium-1 er3:');
8  e0 = 8.854e-12;
9  C = (A * e0) / (d1/er1 + d2/er2 + d3/er3);
10 disp (C, 'Capacitance of parallel plate capacitor in
11
```

Microsoft Store

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 di

-->
```

Type here to search

27°C Mostly cloudy ENG 9:16 PM 10-Feb-23

exp:9 Capacitance of an isolated and concentric sphere.sce (C:\Users\Admin\exp:9 Capacitance of an isolated and concentric sphere.sce) - SciNotes

File Edit Format Options Window Execute ?

exp:9 Capacitance of an isolated and concentric sphere.sce (C:\Users\Admin\exp:9 Capacitance of an isolated and concentric sphere.sce) - SciNotes

exp 4 electric field and electric flux density in sphere.sce | exp 5 Coulomb's Law.sce | exp: 6 Continuous Charge Distribution

experiment 1 cartesian to cylinder.sce | exp 1 cartesian to spherical coordinate system.sce | exp:3 (ii)transformation cylindric

Spherical to Cartesian coordinate system.sce | exp:7 Electric potential difference between two points in free space.sce

exp:9 Capacitance of an isolated and concentric sphere.sce | exp 10 Capacitance of co-axial cable per unit length.sce | exp :11 Diele

```
1  clc;
2  clear;
3  r1 = input ('Enter the value of radius of medium-1 r1
4  r2 = input ('Enter the value of radius of medium-2 r2
5  er = input ('Enter the value of relative permittivity
6  e0 = 8.854e-12;
7  Cisolated = 4 * %pi * e0 * er * r2
8  disp (Cisolated, 'Capacitance of an isolated sphere :
9  Cconcentric = 4 * %pi * e0 * er * ((r1 * r2) / (r2 -
10 disp (Cconcentric, 'Capacitance of two concentric sph
11
```

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 :---Farad"

   5.341D-11

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

-->
```

Type here to search

27°C Mostly cloudy ENG 9:17 PM 10-Feb-23

exp 10 Capacitance of co-axial cable per unit length.sce (C:\Users\Admin\exp 10 Capacitance of co-axial cable per unit length.sce) - SciNotes

File Edit Format Options Window Execute ?

exp 10 Capacitance of co-axial cable per unit length.sce (C:\Users\Admin\exp 10 Capacitance of co-axial cable per unit length.sce) - SciNotes

exp 4 electric field and electric flux density in sphere.sce | exp 5 Coulomb's Law.sce | exp: 6 Continuous Charge Distribution

experiment 1 cartesian to cylinder.sce | exp 1 cartesian to spherical coordinate system.sce | exp:3 (ii)transformation cylindric

Spherical to Cartesian coordinate system.sce | exp:7 Electric potential difference between two points in free space.sce

exp:9 Capacitance of an isolated and concentric sphere.sce | exp 10 Capacitance of co-axial cable per unit length.sce | exp :11 Diele

```
1 clc;
2 clear;
3 r1 = input ('Enter the value of radious of medium-1 r1
4 r2 = input ('Enter the value of radious of medium-2 r2
5 er = input ('Enter the value of relative permittivity
6 Ccoaxial = (2 * %pi * e0 * er) / (log (r2 / r1) );
7 disp (Ccoaxial, 'Capacitance of co-axial cable per uni
8
```

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 :---Farad / met

-->
```

Type here to search

27°C Mostly cloudy ENG 9:18 PM 10-Feb-23

exp :11 Dielectric - free space boundary condition in Electric field.sce (C:\Users\Admin\exp :11 Dielectric - free space boundary condition in Electric field.sce) - SciNotes

File Edit Format Options Window Execute ?

exp :11 Dielectric - free space boundary condition in Electric field.sce (C:\Users\Admin\exp :11 Dielectric - free space boundary condition in Electric fie

exp 4 electric field and electric flux density in sphere.sce | exp 5 Coulomb's Law.sce | exp: 6 Continuous Charge Distribution

experiment 1 cartesian to cylinder.sce | exp 1 cartesian to spherical coordinate system.sce | exp:3 (ii)transformation cylindric

Spherical to Cartesian coordinate system.sce | exp:7 Electric potential difference between two points in free space.sce

exp:9 Capacitance of an isolated and concentric sphere.sce | exp 10 Capacitance of co-axial cable per unit length.sce | exp :11 Dielec

```
1 clc;
2 clear;
3 er1=input('Enter the value of relative permittivity of
4 er2=input('Enter the value of relative permittivity of
5 teta2=input('Enter the value of teta2 of medium - teta
6 teta1=atand((er1 / er2) * tand(teta2));
7 disp(teta1,'teta1 : ');
8
```

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 : "

-->
```

Type here to search

27°C Mostly cloudy ENG 9:21 PM 10-Feb-23

exp: 12 Boundary condition between two different dielectric media in magnetic field.sce (C:\Users\Admin\exp: 12 Boundary condition between two different dielectric media in magnetic field.sce) - SciNotes

File Edit Format Options Window Execute ?

exp: 12 Boundary condition between two different dielectric media in magnetic field.sce (C:\Users\Admin\exp: 12 Boundary condition between two di

exp:9 Capacitance of an isolated and concentric sphere.sce | exp 10 Capacitance of co-axial cable per unit length.sce | exp :11 Diele

exp 4 electric field and electric flux density in sphere.sce | exp 5 Coulomb's Law.sce | exp: 6 Continuous Charge Distribution

experiment 1 cartesian to cylinder.sce | exp 1 cartesian to spherical coordinate system.sce | exp:3 (ii)transformation cylindric

Spherical to Cartesian coordinate system.sce | exp:7 Electric potential difference between two points in free space.sce

```
1  clc;
2  clear;
3  mr2=input('Enter the value of relative permeability c
4  teta1=input('Enter the value of teta2 of medium - tet
5  teta2=input('Enter the value of teta2 of medium - tet
6  m1 = (tand(teta1) / tand (teta2)) * mr2 * 4 * 3.14e-7
7  mr1 = m1 / (4 * 3.14e-7);
8  disp(mr1,'relative permeability of medium - mr1 : ');
9  disp(m1,' permeability of medium - m1 : ');
10
```

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 : "

-->
```

Type here to search

27°C Mostly cloudy ENG 9:22 PM 10-Feb-23

exp:13 Magnetic flux density in ferromagnetic materials.sce (C:\Users\Admin\exp:13 Magnetic flux density in ferromagnetic materials.sce) - SciNotes

File Edit Format Options Window Execute ?

exp:13 Magnetic flux density in ferromagnetic materials.sce (C:\Users\Admin\exp:13 Magnetic flux density in ferromagnetic materials.sce) - SciNotes

exp 4 electric field and electric flux density in sphere.sce | exp 5 Coulomb's Law.sce | exp: 6 Continuous Charge Distribution

experiment 1 cartesian to cylinder.sce | exp 1 cartesian to spherical coordinate system.sce | exp:3 (ii)transformation cylindric

Spherical to Cartesian coordinate system.sce | exp:7 Electric potential difference between two points in free space.sce

exp:9 Capacitance of an isolated and concentric sphere.sce | exp 10 Capacitance of co-axial cable per unit length.sce | exp :11 Diele

```
1  clc;
2  clear;
3  H = input('Enter the value of magnetic field - H : ')
4  mr = input('Enter the value of relative permeability
5  phi = input('Enter the value of magnetic flux - phi :
6  l = input('Enter the value of rectangle length - l :
7  w = input('Enter the value of rectangle width - w : '
8  Binphi = phi / (l * w) ;
9  Binfield = H * mr * 4 * 3.14e-7;
10 disp(Binphi,' Magnetic flux density - Binphi :----Wb/
11 disp(Binfield,' Magnetic flux density- Binfield :----
12
```

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 "

-->
```