

Solution of Laboratory Work 1

2. Creating Variables:

```
--> pi = %pi;  
--> radius = 5;  
--> circumference = 2 * pi * radius;  
--> disp("circumference = ", circumference);  
"circumference = "  
    31.415927
```

```
--> z1 = 2 + 3 * %i;  
--> z2 = 1 - 2 * %i;  
--> result = z1 + z2;  
--> disp("result", result);  
"result"  
    3. + i
```

3. Working Directory:

```
--> pwd();  
--> cd("C:\Users\A\Desktop\Scilab");  
--> pwd();
```

4. Saving the Workspace:

```
--> a = 10;  
--> b = 20;  
--> c = 30;  
--> save('my_variables.sod', 'a', 'b', 'c');  
--> quit;  
--> load('my_variables.sod', 'a', 'b');  
--> disp(a,b);  
--> disp(c);
```

5. Functions and Commands:

```
--> Z=complex(1,2);  
--> disp(Z, "Z = ");
```

edit: Opens the Scilab editor, allowing you to create or modify script (.sce) or function (.sci) files.

exec: Executes a Scilab script file, running the commands or functions written inside it.

abort: Immediately stops the execution of a running program or script.