

## Program 01

### Introductory MatLab Program (Mathematical Operation)

```
x = input('Enter the first number \n') ;
y = input('Enter the second number \n') ;
a = (x+y) ;
b = (x-y) ;
c = (x*y) ;
d = (x/y) ;
fprintf('Addition of %f & %f is %f',x,y,a) ;
fprintf('\n') ;
fprintf('Substraction of %f & %f is %f',x,y,b) ;
fprintf('\n') ;
fprintf('Multiplication of %f & %f is %f',x,y,c) ;
fprintf('\n') ;
fprintf('Division of %f & %f is %f',x,y,d) ;
fprintf('\n') ;
```

## Program 02

### Introductory MatLab Program (Mathematical Operation by Functions)

#### Main File

```
[s,t,u,v] = math05_02_MathematicalOperation() % Name of the file which is
going to call
fprintf('Addition of two numbers is %f', s) ;
fprintf('\n') ;
fprintf('Substraction of two numbers is %f', t) ;
fprintf('\n') ;
fprintf('Multiplication of two numbers is %f', u) ;
fprintf('\n') ;
fprintf('Division of two numbers is %f', v) ;
fprintf('\n') ;
```

#### Function File

```
function [m,n,o,p] = math05_02_MathematicalOperation(x,y)
fprintf('Enter the two numbers for calculation \n') ;
x = input('Enter the first number \n') ;
y = input('Enter the second number \n') ;
m = add00(x,y) ; % Calling the addition function in build in the same .m
file below.
n = sub00(x,y) ; % Calling the subtraction function in build in the same .m
file below.
o = mul00(x,y) ; % Calling the multiplication function in build in the same
.m file below.
p = div00(x,y) ; % Calling the division function in build in the same .m
file below.
function m = add00(i,j)
m = (i + j) ;
```

```
function n = sub00(i,j)
n = (i - j) ;
function o = mul00(i,j)
o = (i * j) ;
function p = div00(i,j)
p = (i / j) ;
```

## Program 03

### Handler

```
clc ;
clear ;
sqr = @(x) x.^2; % File handler for square
cube = @(x) x.^3; % File handler for cube
a = input('Enter the number which we have to calculate the square & cube \n
');
y1 = sqr(a) ;
y2 = cube(a) ;
fprintf('Square & Cube of of %d is %d and %d',a,y1,y2) ;
fprintf('\n') ;
% -----
add = @(x,y) (x + y);
sub = @(x,y) (x - y);
mul = @(x,y) (x * y);
div = @(x,y) (x / y);
b = input('Enter the first digit for mathematical operation \n') ;
c = input('Enter the other digit for mathematical operation \n') ;
y3 = add(b,c) ;
y4 = sub(b,c) ;
y5 = mul(b,c) ;
y6 = div(b,c) ;
fprintf('Addition of %d & %d is %d \n',b,c,y3) ;
fprintf('\n') ;
fprintf('Difference of %d & %d is %d \n',b,c,y4) ;
fprintf('\n') ;
fprintf('Multiplication of %d & %d is %d \n',b,c,y5) ;
fprintf('\n') ;
fprintf('Division of %d & %d is %d \n',b,c,y6) ;
fprintf('\n') ;
```