LAB 7

%function to find out if number odd or even

```
prompt = {'Enter the number'};
title = 'Number';
answer = inputdlg(prompt,title)
n=str2num(answer{1});
number(n)

function [result] = number(n)
    if rem(n,2)==0
        disp('number is even')
    else
        disp('number is odd')
    end
end
answer =

  1×1 cell array

    {'6'}

number is even
```

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%solution of a quadratic equation

```
%quadratic equation is of the form
Ax2+Bx+c
%x=(-b+-(sqrt(b**2-4*a*c)))/2a

disp('quadratic equation is of the form
Ax2+Bx+C')
prompt = {'Enter the value of A','Enter
the value of B','Enter the value of C'}
title = 'Constants'
answer = inputdlg(prompt,title)
a=str2num(answer{1});
b=str2num(answer{2});
c=str2num(answer{3});
d=(b^2-(4*a*c))
solution(a,b,c,d)

function [] = solution(a,b,c,d)
    disp('the value of x1 is')
    x1 = (-b+(sqrt(d)))/2*a;
    disp(x1)
    disp('the value of x2 is')
    x2 = (-b-(sqrt(d)))/2*a;
    disp(x2)
end
quadratic equation is of the form
Ax2+Bx+C

prompt =

  1×3 cell array

    {'Enter the value …'}    {'Enter the
value …'}    {'Enter the value …'}


title =

    'Constants'


answer =

  3×1 cell array

    {'4'}
    {'5'}
    {'2'}


d =

    -7

the value of x1 is
 -10.0000 + 5.2915i

the value of x2 is
 -10.0000 - 5.2915i
```

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