```
# Assignment 10 Question 1
xVal = input('Input X-value: ');
y = 0;
if xVal < 0
  y = exp(xVal) - 1;
  disp("Y-Value: "), disp(y)
else
  y = sqrt(xVal);
  disp("Y-Value: ")
  disp(y)
end
```

<u>output</u>

```
Input X-value: -0.05
Y-Value:
-0.048771
Input X-value: 0.05
Y-Value:
0.2236
```

```matlab
# Assignment 10 Question 2
scores = input("Input scores for John: ");
scores1 = input("Input scores for Jack: ");
scores2 = input("Input scores for Jo: ");


for score = scores
  if score < 60;
    score = "F";
  elseif score <= 69 && score >= 60;
    score = "D";
  elseif score <= 79 && score >= 70;
    score = "C";
  elseif score <= 89 && score >= 80;
    score = "B";
  else score <= 100 && score >= 90;
    score = "A";
  end;
  fprintf("John scored a %s \n-------------\n", score)
end




for score = scores1
  if score < 60;
    score = "F";
  elseif score <= 69 && score >= 60;
    score = "D";
  elseif score <= 79 && score >= 70;
    score = "C";
  elseif score <= 89 && score >= 80;
    score = "B";
  else score <= 100 && score >= 90;
    score = "A";
```

```
    end
    fprintf("Jack scored a %s \n-------------\n", score)
end




for score = scores2
  if score < 60;
    score = "F";
  elseif score <= 69 && score >= 60;
    score = "D";
  elseif score <= 79 && score >= 70;
    score = "C";
  elseif score <= 89 && score >= 80;
    score = "B";
  else score <= 100 && score >= 90;
    score = "A";
  end
  fprintf("Jo scored a %s \n-------------\n", score)
end
```

output

```
Input scores for John: [90, 67, 81]
Input scores for Jack: [60, 77, 69]
Input scores for Jo: [90, 80, 54]
John scored a A
-------------
John scored a D
------------
John scored a B
-------------
Jack scored a D
-------------
Jack scored a C
```

```
------------

Jack scored a D

------------

Jo scored a A

------------

Jo scored a B

------------

Jo scored a F

------------
```

```
# Assignment 10 Question 3
totalBill = input("Cost of bill: ");

if totalBill < 10
  tip = 1.80;
elseif totalBill >= 10 & totalBill <= 60
  tip = totalBill * 0.18;
else totalBill > 60
  tip = totalBill * .20;
end

fprintf('Tip cost is $%4.2f', tip)
```

output

```
Cost of bill: 10
Tip cost is $1.80
Cost of bill: 50
Tip cost is $9.00
Cost of bill: 70
Tip cost is $14.00
```