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DEPARTMENT: COMPUTER ENGINEERING

MARIC NUMBER: I6/MHS/219

ASSIGNMENT 6

INPUT CODE:

```
commandwindow
clear
clc
ore=xlsread('regression')
x0= ore(:,4)
x1 = ore(:,1)
y = ore(:,3)
x = [x0 x1]
dat = regress(y,x)
a0 = dat(1)
a1 = dat(2)
ysim = a0 + (a1*x1)
r = corr(y,ysim)
r_sq=r^2
```

Output:

ORE=

1.0e+05 *

0	0.0000	0.0000	0.0000
0.0000	0.0001	0.0000	0.0000
0.0000	0.0002	0.0000	0.0000
0.0000	0.0005	0.0000	0.0000
0.0000	0.0015	0.0000	0.0000
0.0001	0.0047	0.0000	0.0000
0.0001	0.0143	0.0000	0.0000
0.0001	0.0451	0.0000	0.0000
0.0001	0.1294	0.0000	0.0000
0.0001	0.4113	0.0000	0.0000

0.0001 1.1102 0.0001 0.0000

x0 =

1

1

1

1

1

1

1

1

1

1

1

x1 =

0

1

2

3

4

5

6

7

8

9

10

$y =$

0.3010

0.6990

1.2788

1.6990

2.1790

2.6721

3.1569

3.6544

4.1118

4.6141

5.0454

$x =$

1 0

1 1

1 2

1 3

1 4

1 5

1 6

1 7

I 8

I 9

I 10

dat =

0.2751

0.4797

a0 =

0.2751

aI =

0.4797

ysim =

0.2751

0.7548

1.2346

1.7143

2.1940

2.6738

3.1535

3.6332

4.1129

4.5927

5.0724

$r =$

0.9998

$r_{sq} =$

0.9997