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Mata Kuliah : Metode Numerik

KUIZ:

Soal Nomor 1:

```
soal-nomor1.m RUN ►  
1 x = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];  
2 for i = x  
3     y = i^2 - 5;  
4     fprintf('x = %d, f(x) = %d\n', i, y);  
5 end
```

Output:

```
ctave:0> source("soal-nomor1.m")  
x = 1, f(x) = -4  
x = 2, f(x) = -1  
x = 3, f(x) = 4  
x = 4, f(x) = 11  
x = 5, f(x) = 20  
x = 6, f(x) = 31  
x = 7, f(x) = 44  
x = 8, f(x) = 59  
x = 9, f(x) = 76  
x = 10, f(x) = 95
```

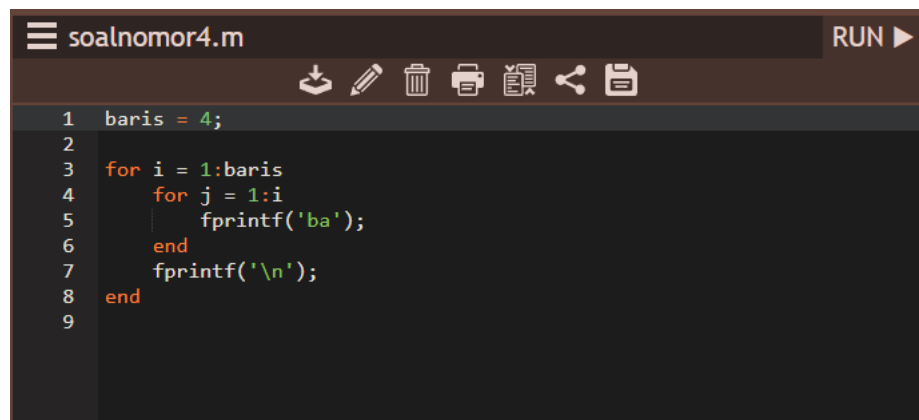
Soal Nomor 2:

```
soalnomor2.m RUN ►  
1 pilihan = input('Masukkan nilai pilihan (1, 2, atau 3): ');  
2  
3 x = input('Masukkan nilai x: ');  
4  
5 y = input('Masukkan nilai y: ');  
6  
7 a = 0;  
8  
9 if pilihan == 1  
10     a = x + y;  
11 elseif pilihan == 2  
12     a = x * y;  
13 elseif pilihan == 3  
14     a = x ^ y;  
15 else  
16     disp('Pilihan tidak valid. Silakan masukkan 1, 2, atau 3.');17 end  
18  
19 if a ~= 0  
20     disp(['Hasil perhitungan: a = ' num2str(a)]);  
21 end  
22
```

Output:

```
octave:16> source("soalnomor2.m")
Masukkan nilai pilihan (1, 2, atau 3): > 2
Masukkan nilai x: > 1
Masukkan nilai y: > 4
Hasil perhitungan: a = 4
```

Soal Nomor 4:

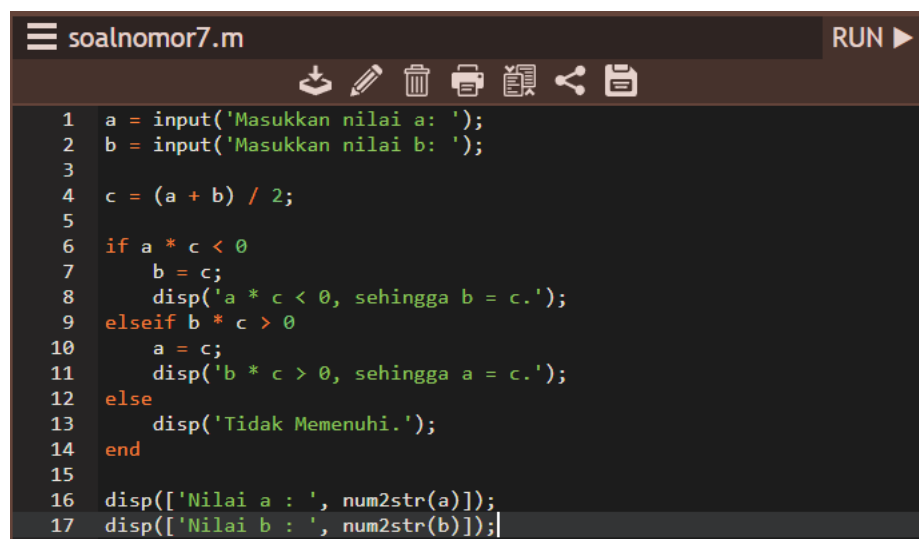


```
soalnomor4.m
1 baris = 4;
2
3 for i = 1:baris
4     for j = 1:i
5         fprintf('ba');
6     end
7     fprintf('\n');
8 end
9
```

Output:

```
octave:17> source("soalnomor4.m")
ba
baba
bababa
babababa
```

Soal Nomor 7:



```
soalnomor7.m
1 a = input('Masukkan nilai a: ');
2 b = input('Masukkan nilai b: ');
3
4 c = (a + b) / 2;
5
6 if a * c < 0
7     b = c;
8     disp('a * c < 0, sehingga b = c. ');
9 elseif b * c > 0
10    a = c;
11    disp('b * c > 0, sehingga a = c. ');
12 else
13    disp('Tidak Memenuhi. ');
14 end
15
16 disp(['Nilai a : ', num2str(a)]);
17 disp(['Nilai b : ', num2str(b)]);
```

Output:

```
octave:18> source("soalnomor7.m")  
Masukkan nilai a: > 1122  
Masukkan nilai b: > 100  
b * c > 0, sehingga a = c.  
Nilai a : 611  
Nilai b : 100
```