



UNIVERSIDADE FEDERAL DA PARAÍBA - CENTRO DE INFORMÁTICA

Componente curricular: Introdução à Programação

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Turma: 25.1 Ciência de Dados e Inteligência Artificial

Lista de Exercícios 01: Teste de Mesa

Programa 01

```
a = 5
b = 2
if (a + b < 10):
    c = a - b
else:
    c = a + b
a = c * b
print (b - 3)
```

<u>A</u>	<u>B</u>	<u>C</u>	<u>TELA</u>
5	-	-	
5	2	-	
5	2	3	
6	2	3	-1

Programa 02

```
a = 1
b = 0
if (a > 0):
    b = a + b
    c = b + b
    a = a + b + c
else:
    b = 2 * a
print (a + 3)
```

<u>A</u>	<u>B</u>	<u>C</u>	<u>TELA</u>
1	-	-	
1	0	-	
1	1	-	
1	1	2	
4	1	2	7

Programa 03

```
a = 2
b = 7
if (a + b > 10):
    c = a + 1
    b = c + 1
else:
    c = a - 1
    b = c - 1
    a = b - 1
```

<u>A</u>	<u>B</u>	<u>C</u>	<u>TELA</u>
2	-	-	
2	7	-	
2	7	1	
2	0	1	
-1	0	1	

Programa 04

```
a = 8
b = a + 3
c = b - 1
if (c > 4):
    a = a + c
else:
    a = a + b
b = (2 * c) - a
c = a - c
a = c / b
```

<u>A</u>	<u>B</u>	<u>C</u>	<u>TELA</u>
8	-	-	
8	11	-	
8	11	10	
18	11	10	
18	2	10	
18	2	8	
4	2	8	

Programa 05

```
b = 5/2 + 6/4
a = 3 + b
if (a > 7):
    c = a + c
    print(b - a)
elif (a == 7):
    c = a - b
    print(2*c + 1)
else:
    a = a + b
```

<u>A</u>	<u>B</u>	<u>C</u>	<u>TELA</u>
-	4	-	
7	4	-	
7	4	3	7

Programa 06

```
a = - 5
b = 9
if (a + b == 3):
    c = a + 7
    d = b - 4
else:
    c = a + 2
    d = b - 10
a = -2 * a
b = - b / c
c = c + 4
d = d + c
```

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>TELA</u>
-5	-	-	-	
-5	9	-	-	
-5	9	-3	-	
-5	9	-3	-1	
10	9	-3	-1	
10	3	-3	-1	
10	3	1	-1	
10	3	1	0	

Programa 07

```
a = 3
b = 2
c = 4
if (a+b+c < 7):
    b = c + 5
    c = a + 8
    a = (a*c) + b
else:
    b = 5 * c
    c = a + b - 8
    a = (2*a) - 1
b = b - (a + c)
c = c - (a + b)
```

<u>A</u>	<u>B</u>	<u>C</u>	<u>TELA</u>
3	-	-	
3	2	-	
3	2	4	
3	20	4	
3	20	15	
5	20	15	
5	0	15	
5	0	10	

Programa 08

```
a = 6
b = 1
if (a > 0):
    if (b > 0):
        c = a + b
    else:
        c = a - b
elif (b < 5):
    c = a * b
else:
    c = a / b
```

<u>A</u>	<u>B</u>	<u>C</u>	<u>TELA</u>
6	-	-	
6	1	-	
6	1	7	

Programa 09

```
a = 1
b = 3
if (a > 0):
    if (b > 0):
        c = (a+b)*2
    else:
        c = 0
else:
    b = 2
if (c > 0):
    a = 2
else:
    b = 4
```

<u>A</u>	<u>B</u>	<u>C</u>	<u>TELA</u>
1	-	-	
1	3	-	
1	3	8	
2	3	8	

Programa 10

```
c = 4
b = c * 5/2
a = c * b - b
if (b > a):
    if (c > b):
        d = a * 2
    elif (a > c):
        d = 29-a+b
elif (a > b+c):
    d = (b - c)/3
    print(a + d)
else:
    d = c - 9 + a
    a = a - (b+c+d)
```

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>TELA</u>
-	-	4	-	
-	10	4	-	
30	10	4	-	
30	10	4	2	32
14	10	4	2	

Programa 11

```
d = 6**2 - 8
if (d > 20):
    if (d < 25):
        a = d / 3
        print(a + d)
    elif (d > 28):
        a = d*5 + 1
        print(a - d)
    elif (d < 22):
        b = d + 1
        print(b - 3)
    else:
        b = d / 7
        print(b**2)
a = d - b
```

<u>A</u>	<u>B</u>	<u>D</u>	<u>TELA</u>
-	-	28	
-	4	28	16
24	4	28	

Programa 12

```
c = 7 + 5*1.2
b = c - 4
if (b > 9):
    if (c == 10):
        a = b + 3
    elif (b == 6):
        a = c*3
        print(a - c)
    elif (c >=13):
        a = b + 1
    else:
        a = c / 7
        print(a**b)
if (a < b):
    a = c - b
c = c - a
```

<u>A</u>	<u>B</u>	<u>C</u>	<u>TELA</u>
-	-	13	
-	9	13	
10	9	13	
10	9	3	

Programa 13

```
b = 5
if (b > 7):
    a = b + 4
    c = a * 2
a = (b - 2) ** 3
if (a < 15):
    d = c - a
    print (a)
elif (a > 29):
    if (b > 8):
        d = b+c-1
    elif (b < 6):
        d = a * c
else:
    a = a + 2 * b
```

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>TELA</u>
-	5	-	-	
27	5	-	-	
37	5	-	-	