Exposure Es 2021 For Es1 Colonial Anno A

Charter 4 Output Slides For Students

PowerPoint Presentation
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Output Programs

These slides will present a variety of small programs. Each program has at least one variable and at least one command where the value of a variable is displayed. Several of these programs involve the use of various mathematical operators.

Our concern will be with the output of each program, and more importantly, developing a way to determine program output correctly.

This is a very important skill, especially when you need to debug a program with logic errors.

Teacher/Student Versions, Tablet PCs, and Inking

The "For Teachers" version of this presentation has 2 or more slides for each program.

The first slide only shows the program.

The other slide(s) show the program, worked out solution, and output.

The "For Students" version only has 1 slide for each program with no provided solution or output. Students are expected to work out the solutions either on paper, or ideally they can "ink" directly on their laptops.

```
1 # Output0401.py
  j = 25
  print(j)
10
```

```
1 # Output0402.py
  j = 25
   print("j")
10
```

```
1 # Output0403.py
  j = 25
   print("j =",j)
10
```

```
1 # Output0404.py
 2
   print(j)
 4
10
```

```
1 # Output0405.py
  j = 10
  j += 1
  print(j)
10
```

```
1 # Output0406.py
  j = 10
 4 | j += 1
 5 j += 1
  j += 1
  j += 1
  print(j)
10
```

```
1 # Output0407.py
  j = 10
 4 | j += 1
  j += 1
  print(j)
10
```

```
1 # Output0408.py
  j = 100
  j += 50
  print(j)
10
```

```
1 # Output0409.py
  j = 100
 4 j += 50
  j -= 70
  print(j)
10
```

```
1 # Output0410.py
  j = 100
    *= 5
  print(j)
10
```

```
1 # Output0411.py
 3 | j = 105
 4 j /= 7
 5 j /= 3
  print(j)
10
```

```
1 # Output0412.py
  p = 10
  q = 20
     *= 7
  q *= 4
  r = p + q
  print(r)
10
```

```
1 # Output0413.py
  p = q = 60
 4 p /= 5
 5 q /= 6
 6 r = p - q
7 r -= 1
  print(r)
10
```

```
1 # Output0414.py
  p = 12
  q = 9
 5 r = p
  p += 1
   q -= 1
  print(p)
   print(q)
10 print(r)
11
```

```
1 # Output0415.py
  p = 35
  q = 10
 5 r = p / q
  print(r)
10
```

```
1 # Output0416.py
  p = 35
  q = 10
 5 r = p // q
  print(r)
10
```

```
1 # Output0417.py
  p = 35
  q = 10
 5 r = p % q
  print(r)
10
```

```
# Output0418.py
  q = 5
 5 r = p
 6 s = q
  t = r - s
   print(t)
10
```

```
1 # Output0419.py
 3 | a = 3
 4 b = 4
 5 c = a + b
 6 c += 1
7 d = 2 * b
 8 e = c - d
 9 f = d / e
10 print(f)
11
```

```
1 # Output0420.py
 2
  p = 12.34
 4 q = 43.21
 5 r = p + q
  print(r)
10
```

```
1 # Output0421.py
 2
   p = "12.34"
  q = "43.21"
 5 r = p + q
  print(r)
10
```

```
1 # Output0422.py
 2
  p = 12.34
  q = "43.21"
 5 r = p + q
  print(r)
10
```

```
1 # Output0423.py
  p = 25
  q = 10
 5 r = p / q
 6 s = q / r
  print(s)
 8
10
```

```
1 # Output0424.py
  p = 25
 4 | q = 10
 5 r = p // q
 6 s = q // r
  print(s)
 8
10
```

```
1 # Output0425.py
  p = 1 + 3 * 5 - 4 / 2
  q = (1 + 3 * 5 - 4) / 2
 5 r = (1 + 3) * ((5 - 4) // 2)
 6 \mid s = ((1 + 3) * (5 - 4)) / 2
   print(p)
   print(q)
  print(r)
11 print(s)
12
```