Emposife Es 2021 for Es1

Charter 8 Output Slides For Students

PowerPoint Presentation
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Output Programs

These slides will present a variety of small programs. Each program has a control structure that was introduced in this chapter.

Our concern will be with the output of each program, and more importantly, developing a way to determine program output correctly for programs that involve repetition control structures.

You can expect that on quizzes and/or tests that only a program segment may be shown.

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 # Output0801
 2
   print()
 4 for k in range(5):
      print("Hello")
 5
 6
 8
10
```

```
1 # Output0802
 2
   print()
 4 for k in range(5):
 5
      print(k)
 6
 8
10
```

```
1 # Output0803
 2
   print()
  for k in range(5,10):
 5
      print(k)
 6
 8
10
```

```
1 # Output0804
 2
   print()
  for k in range(10,20,2):
      print(k)
 5
 6
 8
10
```

```
1 # Output0805
 2
   print()
  for k in range(10,21,2):
      print(k)
 5
 6
 8
10
```

```
1 # Output0806
 2
   print()
  for k in range(10,0,-1):
      print(k)
 5
 6
 8
10
```

```
1 # Output0807
 2
   print()
  for k in range(100,-1,-20):
      print(k)
 5
 6
 8
10
```

```
1 # Output0808
 2
   print()
 4 k = 1
  while k < 100:
 6
      print(k)
      k *= 2
 8
 9
10
```

```
1 # Output0809
 2
   print()
 4 k = 1
   while k < 100:
 6
      k *= 2
      print(k)
 8
 9
10
```

```
1 # Output0810
 2
  print()
 4 k = 729
  while k > 0:
 6
      print(k)
      k //= 3
 8
 9
10
```

```
1 # Output0811
 2
 3 print()
 4 x = 0
 5 y = 0
 6 while x < 10:
      y = x + 2
 8
      x = y + 3
   print(y)
10
```

```
1 # Output0812
  print()
4 x = 0
 5 y = 0
 6 while x < 10:
      y = x * 2
     x += 3
  print(x,y)
10
```

```
1 # Output0813
 3 print()
 4 x = 1
 5 | y = 3
 6 z = 5
 7 while z > x + y:
 8
      X = Y + Z
 9
      y = x + z
10
      z = x - y
   print(x,y,z)
12
```

```
1 # Output0814
 2
   print()
   while 2 + 2 == 4:
      print("EXPOSURE COMPUTER SCIENCE")
 5
 6
 8
10
```

```
1 # Output0815
 2
  print()
 4 x = 20
 5 y = 10
 6 while x > y:
      x -= 1
 8
      y += 1
   print(x,y)
10
```

```
1 # Output0816
 2
  print()
 4 x = 20
 5 y = 10
 6 while x < y:
      x -= 1
 8
      y += 1
   print(x,y)
10
```

```
1 # Output0817
 2 # How many times will this
 3
  # program print "Hello" ?
 4
  print()
  for a in range(5):
      for b in range(3):
         print("Hello")
 8
 9
10
11
```

```
1 # Output0818
 2
   print()
  for a in range(5):
 5
      for b in range(3):
 6
          print(a,b)
 8
 9
10
```

```
1 # Output0819
 2 # How many times will this
 3
  # program print "Hello" ?
 4
  print()
  for a in range(21):
      if a % 5 == 0:
         print("Hello")
 8
 9
10
11
```

```
1 # Output0820
 2
  from random import randint
 4
  print()
 6 r = randint(30,50)
 7 if r > 20:
      print("Hello")
   else:
      print("Goodbye")
10
11
```