Python i Pygame

Programiranje arkadnih igrica u Pythonu koristeći Pygame

Ponovo petlje

Završetak print naredbe

- Na kraj print naredbe dolazi end znak, standardno je to CR (Enter)
  Nije ga potrebno pisati, a znači prelaz u novi red

- Primjer:
  ```
  print("Pink")
  print("Octopus")
  ```
  će biti ispisano kao
  ```
  Pink
  Octopus
  ```

- Ako želimo da se ispis nastavlja u tekućem redu, potrebno je definirati novi end znak

- Primjer:
  ```
  print("Pink", end="")
  print("Octopus")
  ```
  će biti ispisano kao
  ```
  PinkOctopus
  ```

- Napiši kod za ispis na ekran:

  ```
  * * * * * * * * * *
  ```

- Rješenje:

  ```
  for row in range(10):
      print("*",end=" ")
  ```

- Napiši kod za ispis na ekran:

```
* * * * * * * * * *
* * * * *
* * * * * * * * * * * * * * * * * * * *
```

- Rješenje:

```
for row in range(10):
    print("*",end=" ")
print()
for row in range(5):
    print("*",end=" ")
print()
for row in range(20):
    print("*",end=" ")
```

- Napiši kod za ispis na ekran:

```
*  *  *  *  *  *  *  *  *  *
*  *  *  *  *  *  *  *  *  *
*  *  *  *  *  *  *  *  *  *
*  *  *  *  *  *  *  *  *  *
*  *  *  *  *  *  *  *  *  *
*  *  *  *  *  *  *  *  *  *
*  *  *  *  *  *  *  *  *  *
*  *  *  *  *  *  *  *  *  *
*  *  *  *  *  *  *  *  *  *
*  *  *  *  *  *  *  *  *  *
```

- Rješenje:

```
for row in range(10):
    for column in range(10):
        print("*",end=" ")
    print()
```

- Napiši kod za ispis na ekran:

```
*  *  *  *  *
*  *  *  *  *
*  *  *  *  *
*  *  *  *  *
*  *  *  *  *
*  *  *  *  *
*  *  *  *  *
*  *  *  *  *
*  *  *  *  *
*  *  *  *  *
```

- Rješenje:

```
for row in range(10):
    for column in range(5):
        print("*",end=" ")
    print()
```

- Napiši kod za ispis na ekran:

```
*  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *
*  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *
*  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *
*  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *
*  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *
```

- Rješenje:

```
for row in range(5):
    for column in range(20):
        print("*",end=" ")
    print()
```

- Napiši kod za ispis na ekran:

```
0 1 2 3 4 5 6 7 8 9
0 1 2 3 4 5 6 7 8 9
0 1 2 3 4 5 6 7 8 9
0 1 2 3 4 5 6 7 8 9
0 1 2 3 4 5 6 7 8 9
0 1 2 3 4 5 6 7 8 9
0 1 2 3 4 5 6 7 8 9
0 1 2 3 4 5 6 7 8 9
0 1 2 3 4 5 6 7 8 9
0 1 2 3 4 5 6 7 8 9
```

- Rješenje:

```
for row in range(10):
    for column in range(10):
        print(column, end=" ")
    print()
```

- Napiši kod za ispis na ekran:

```
0 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1 1 1 1
2 2 2 2 2 2 2 2 2 2
3 3 3 3 3 3 3 3 3 3
4 4 4 4 4 4 4 4 4 4
5 5 5 5 5 5 5 5 5 5
6 6 6 6 6 6 6 6 6 6
7 7 7 7 7 7 7 7 7 7
8 8 8 8 8 8 8 8 8 8
9 9 9 9 9 9 9 9 9 9
```

- Rješenje:

```
for row in range(10):
    for column in range(10):
        print(row, end=" ")
    print()
```

- Napiši kod za ispis na ekran:

```
0
0 1
0 1 2
0 1 2 3
0 1 2 3 4
0 1 2 3 4 5
0 1 2 3 4 5 6
0 1 2 3 4 5 6 7
0 1 2 3 4 5 6 7 8
0 1 2 3 4 5 6 7 8 9
```

- Rješenje:

```
for row in range(10):
    for column in range(row + 1):
        print(column, end=" ")
    print()
```

Kviz

- Slijedi link ispod:

  http://programarcadegames.com/quiz/quiz.php?file=adv_loops&lang=en

Kviz odgovori

- P1: What does this code display?
  ```
  for i in range(3):
      print("*")
  ```
  - ***
  - 012
  - 0
    1
    2
  - *
    *
    *

- P2: What does this code display?
  ```
  for i in range(3):
      print(i, end="")
  ```
  - 012
  - ***
  - *
    *
    *
  - 0
    1
    2

Kviz odgovori, nastavak

- P3: What does this code display?
```
for i in range(3):
    print("*", end="")
for j in range(3):
    print("*", end="")
```
  - ******

  - 012012

  - ***
    ***
    ***

  - *********

  - ***
    ***

- P4: What does this code display?
```
for i in range(3):
    for j in range(3):
        print("*", end="")
```
  - ***
    ***

  - 012012

  - ******

  - ***
    ***
    ***

  - *********

- P5: What does this code display?
```
for i in range(3):
    for j in range(3):
        print("*", end="")
        print()
```
  - (9 asterisks in a vertical line.)
  - *********
  - ***
    ***
    ***

- P6: What does this code display?
```
for i in range(3):
    for j in range(3):
        print("*", end="")
    print()
```
  - (9 asterisks in a vertical line.)
  - *********
  - ***
    ***
    ***

Kviz odgovori, nastavak

- P7: What does this code display?
  ```
  for i in range(3):
      for j in range(3):
          print("*", end="")
  print()
  ```
  - (9 asterisks in a vertical line.)
  - *********

  - ***
    ***
    ***

- P8: What does this code display?
  ```
  for i in range(3):
      for j in range(3):
          print(i, end="")
      print()
  ```
  - 012012012
  - 000
    111
    222
  - 012
    345
    678