Python

Повторення

```
a="Hello"

a=10

print(a)
```

```
a=b=10
print(a, b)
a=2
b=3
a,b=b,a
print(a, b)
```
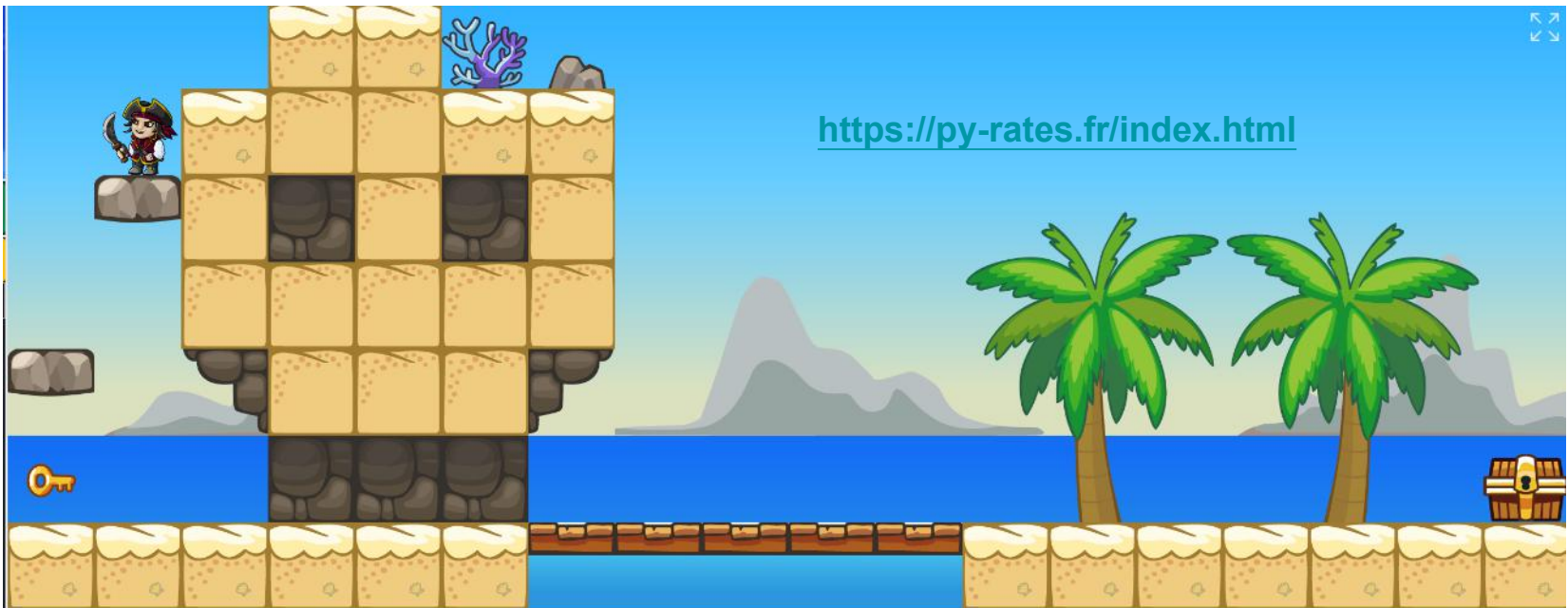
```python
print("Pick either Ostrich, Lion or Whale")
print("I will attempt to guess your choice")
print("Does the animal live in the water? Y/N")
answer = input().lower()

if answer == "n":
    print("Does the animal have wings? Y/N")
    answer = input().lower()
    if answer == "y":
        print("It must be an Ostrich!")
    else:
        print("It must be a Lion!")
else:
    print("It must be a Whale!")
```
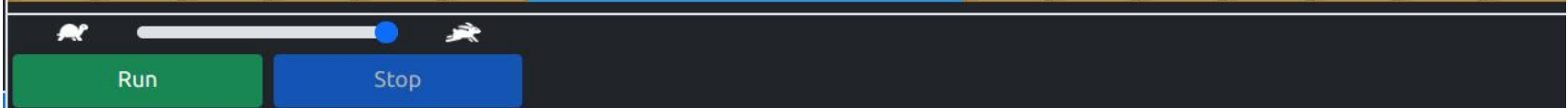
Повторення

```
times_table = 5
answer = 0
print(f"Here is the {times_table} times table")
for x in range(1,11):
    answer = x * times_table
    print(f"{x} times {times_table} is {answer}")
```

https://py-rates.fr/index.html

```
1 walk()
2 right()
3 walk()
4 left()
5 walk()
6 right()
7 for i in range(16):
```

ВИНЯТКИ (exceptions)

```python
1  print('Enter a number')
2  try:
3      number = int(input())
4  except ValueError:
5      print('You must enter a number')
6      number = int(input())
```

https://python.land/deep-dives/python-try-except

Python's
try, except,
else, finally

try:
Protected code
that might
trigger an
exception.

except:
Handle exception
properly

else:
Only when no
exceptions

finally:
Always run this
code.

ВИНЯТКИ (exceptions)

ZeroDivisionError

```python
a = int(input("a="))
b = int(input("b="))
try:
    result = a / b
except ZeroDivisionError:
    print("You can't divide by 0!")
else:
    print(result)
```

ВИНЯТКИ (exceptions)

ValueError (NameError, TypeError)

```python
#Перевірка на число
count = input()
try:
    count = int(count)
except ValueError:
    print("Not digit")
else:
    print(type(count))
```

ВИНЯТКИ (exceptions)

```python
fruits = ['apple', 'pear', 'banana']
try:
    selection = fruits[int(input('Select a fruit number (0-2): '))]
except ValueError:
    print('That is not a number')
except IndexError:
    print('That fruit number does not exist!')
```

Task 1

Написати програму-гру "Вгадай число", використовуючи перевірку винятків.