

Bowler Smashing cryptobot!

```
import smartpy as sp

class Cryptobot(sp.Contract):

    def __init__(self, manager_address, life_state):

        self.init(
            bot_manager = manager_address,
            name = "kohli",
            is_alive = life_state,

            coordinate_x = sp.int(0),
            coordinate_y = sp.nat(0),

            six_hitting_count = 6,

            record_bowler_smashed = {
                "pacer_bowler": sp.nat(0),
                "spinner_bowler": sp.nat(0),
            }
        )

    @sp.entry_point
    def change_name(self, new_name):
        sp.verify(
            self.data.bot_manager == sp.sender,
            message = "Error: non manager call"
        )

        self.data.name = new_name

    @sp.entry_point
    def move_horizontally(self, update_to):
        sp.verify(
            self.data.bot_manager == sp.sender,
            message = "Error: non manager call"
        )

        self.data.coordinate_x += update_to

    @sp.entry_point
    def move_vertically(self, update_to):
```

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```
sp.verify(
    self.data.bot_manager == sp.sender,
    message = "Error: non manager call"
)

self.data.coordinate_y += update_to


@sp.entry_point
def hit_bowler(self, bowler_type):

    sp.verify(
        self.data.bot_manager == sp.sender,
        message = "Error: non manager call"
    )

    sp.if self.data.six_hitting_count >= 1:
        self.data.six_hitting_count -= 1
        self.data.record_bowler_smashed[bowler_type] += 1
    sp.else:
        sp.failwith("Error: you ran out of energy! Please
gain more!")


@sp.add_test(name = "Ending")
def test():
    scenario = sp.test_scenario()

    ## Class Invokation
    my_address = sp.address("tz1Syu3KacZ8cy4286a4vaCeoMtwqVKHk
aoj")

    test_bot = Cryptobot(manager_address = my_address, life_s
tate = True)

    ## Testing contract
    scenario += test_bot

    scenario += test_bot.change_name("chiku kohli").run(sender
= my_address)

    scenario.verify(test_bot.data.is_alive == True)
```

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```
scenario += test_bot.move_horizontally(2).run(sender = my_address)
```

```
scenario += test_bot.move_vertically(1).run(sender = my_address)
```

```
scenario += test_bot.hit_bowler("pacer_bowler").run(sender = my_address)
```

```
scenario += test_bot.hit_bowler("spinner_bowler").run(sender = my_address)
```