Задание

Разработайте простого бота для Telegram. Бот должен реализовывать конечный автомат из трех состояний.

Код программы.

handlers.py

```
from aiogram import html, F, Router
from aiogram.types import Message, CallbackQuery
from app.keyboards import Kb
router = Router()
   await message.answer(f"Hello, {html.bold(message.from user.full name)}!",
async def cmd help(message: Message):
   await message.reply("команды:\n/help\n/start\n/covid\n/smile")
@router.message(StateFilter(None), Command(commands=["cancel"]))
async def cmd cancel no state (message: Message, state: FSMContext):
   await state.set data({})
   await message.answer(text="Нечего отменять")
@router.message(Command(commands=["cancel"]))
@router.message(F.text == "ggg")
async def msg catch(message: Message):
   await message.answer("fff")
@router.message(F.text == "1")
async def ikb nine(callback: CallbackQuery):
    await callback.message.answer("its 9")
@router.message()
    try: await message.send copy(chat id=message.chat.id)
   except TypeError: await message.answer("Nice try!")
```

keyboards.py

```
from aiogram import html, F, Router
from aiogram.types import ReplyKeyboardMarkup, KeyboardButton,
```

states.py

```
from aiogram.filters import Command
from aiogram.fsm.context import FSMContext
from aiogram.fsm.state import StatesGroup, State
from aiogram.types import Message, ReplyKeyboardRemove
from app.keyboards import Kb
routerr = Router()
class Registration(StatesGroup):
   type = State()
   login = State()
   password = State()
@routerr.message(Command("reg"))
async def reg start(message: Message, state: FSMContext):
   await state.update data(user id=message.from user.id)
   await message.answer(text="choose root or user:", reply markup=Kb.type)
   await state.set state(Registration.type)
async def output data(message: Message, state: FSMContext):
   user data = await state.get data()
    if len(user data.keys()) == 0: await message.answer(text="no data")
    else: await message.answer(text=f"login: {user data['user id']}\nlogin:
{user data['type']}\n"
                                    f"login: {user data['login']}\npassword:
{user data['password']}.")
@routerr.message(F.text, Registration.type)
async def rooting(message: Message, state: FSMContext):
        await message.answer(text="error, choose", reply_markup=Kb.type)
```

```
await state.update_data(type=message.text)
   await message.answer(text="Enter login:",
reply_markup=ReplyKeyboardRemove())
   await state.set_state(Registration.login)

@routerr.message(F.text, Registration.login)
async def logining(message: Message, state: FSMContext):
   await state.update_data(login=message.text)
   await message.answer(text="Enter password:")
   await state.set_state(Registration.password)

@routerr.message(F.text, Registration.password)
async def passwording(message: Message, state: FSMContext):
   await state.update_data(password=message.text)
   await message.answer(text=f"auntification success")
   await state.set_state(None)
```

main.py

```
import asyncio
from aiogram import Bot, Dispatcher

from app.handlers import router

async def main():
    TOKEN = "token"
    bot = Bot(token=TOKEN)
    dp = Dispatcher()
    dp.include_router(router)
    await dp.start_polling(bot)

if __name__ == "__main__":
    try: asyncio.run(main())
    except KeyboardInterrupt: print("end")
```

Результаты.

