As400 RPG Program calling using Python Pyodbc

Contents

[Objective 1](#_Toc121842691)

[Code Snippet 1](#_Toc121842692)

[What did we gain? 1](#_Toc121842693)

# Objective

The Objective is to call the As400 Program with a simple Python Script, we had a Business need to invoke RPG Programs with Python script, with that we are planning to replace an existing .Net Service that was always running to call the AS400 Program

## Code Snippet

Using Pyodbc Module to call As400 RPG Program

**# -\*- coding: utf-8 -\*-**

**"""**

**Created on Mon Feb 13 05:41:28 2023**

**@author: kmod1567**

**"""**

**import pyodbc**

**def convertlentostrformat(cmd):**

**cmdlen = str(len(cmd))**

**lenoflen = len(cmdlen)**

**size=10**

**strtest=""**

**while size > lenoflen:**

**strtest=strtest+"0"**

**size=size-1**

**strtest=strtest+cmdlen**

**strtest = "{}{}".format(strtest, ".00000")**

**return strtest**

**RPGProgram=input("Enter Program Name: ")**

**param1=input("Enter param1: ")**

**param2=input("Enter param2: ")**

**try:**

**connection = pyodbc.connect(**

**driver='{iSeries Access ODBC Driver}',**

**system='ServerName',**

**uid='Username',**

**pwd='Password')**

**con = connection.cursor()**

**cmd = 'CALL PGM('+RPGProgram+') PARM(\''+param1+'\' \''+param2 +'\')'**

**print(cmd)**

**strtest=convertlentostrformat(cmd)**

**pgv = "CALL QSYS.QCMDEXC(\'"+cmd.replace("'", "''")+"\',"+strtest+")"**

**print(pgv)**

**con.execute(pgv)**

**con.close()**

**connection.close()**

**except pyodbc.Error as ex:**

**print("error:"+str(ex))**

## What did we gain?

1. Ability to call the As400Program from a Python script only when required instead of having a .NET service that is always running.
2. This code can be reused as a Bot to run a series of operations