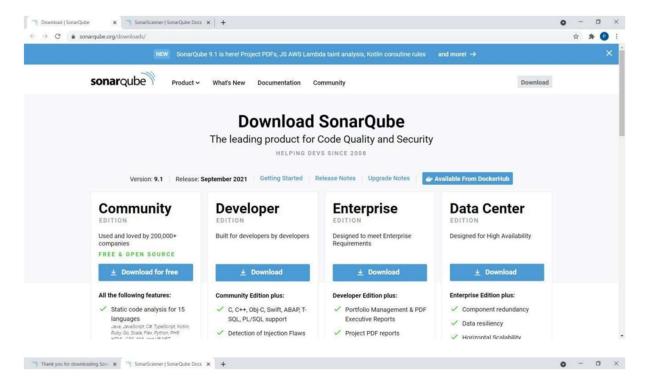
Assignment 7

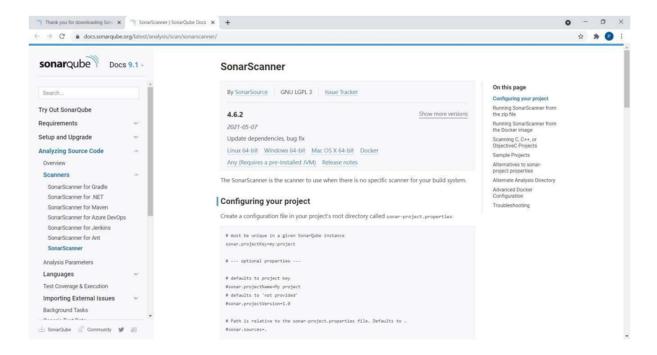
Aim: TO perform static analysis on python programs using SonarCube SAST processes

LO Mapped: L04

Theory:

Download and Sonar Scanner





After downloading, set Environment Variables. Add "sonarqube-9.1.0.47736\bin" to Path.

Open command prompt. Run commands:

- cd "sonarqube-9.1.0.47736\bin\windows-x86-64"
 - StartSonar.bat

```
Security of the property of th
```

Open another command prompt. Run command:

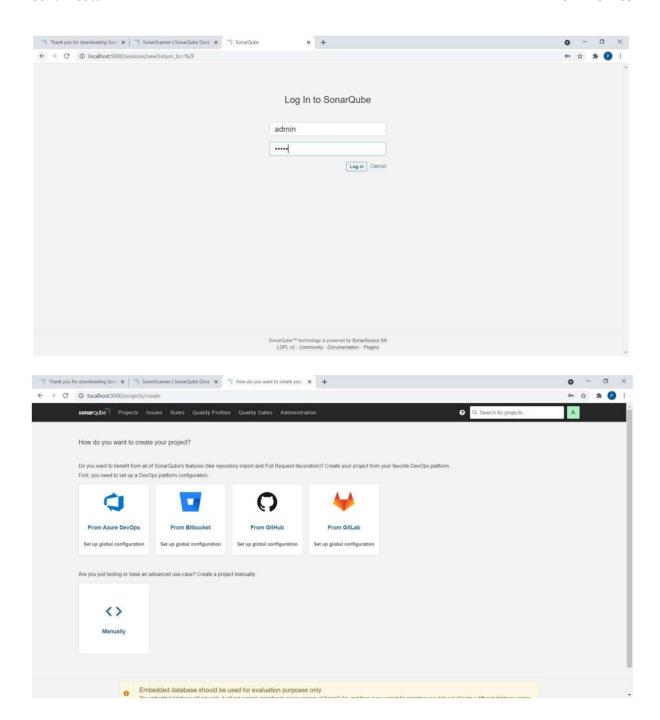
e cd "sonar-scanner-4.6.2.2472-windows\bin"

sonar-scanner

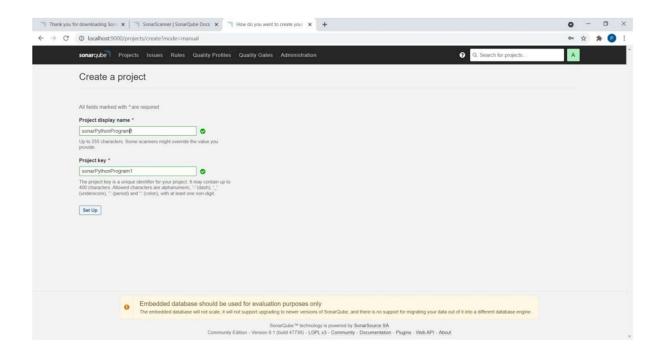
```
Command Prompt
  \Users\Priyansi\Downloads\sonar-scanner-4.6.2.2472-windows\bin>sonar-scanner
INFO: Scanner configuration file: C:\Users\Priyansi\Downloads\sonar-scanner-4.6.2.2472-windows\bin\..\conf\sonar-scanne
INFO: Project root configuration file: NONE
INFO: SonarScanner 4.6.2.2472
INFO: Java 11.0.11 AdoptOpenJDK (64-bit)
INFO: Windows 10 10.0 amd64
INFO: User cache: C:\Users\Priyansi\.sonar\cache
INFO: Scanner configuration file: C:\Users\Priyansi\Downloads\sonar-scanner-4.6.2.2472-windows\bin\..\conf\sonar-scanner
.properties
INFO: Project root configuration file: NONE
INFO: Analyzing on SonarQube server 9.1.0
INFO: Default locale: "en_IN", source code encoding: "windows-1252" (analysis is platform dependent)
INFO: Load global settings
INFO: EXECUTION FAILURE
INFO:
INFO: Total time: 3.958s
INFO: Final Memory: 5M/20M
INFO:
ERROR: Error during SonarScanner execution
ERROR: Not authorized. Analyzing this project requires authentication. Please provide a user token in sonar.login or oth
 er credentials in sonar.login and sonar.password.
ERROR: Re-run SonarScanner using the -X switch to enable full debug logging.
 :\Users\Priyansi\Downloads\sonar-scanner-4.6.2.2472-windows\bin>
```

Server up and running on localhost:9000

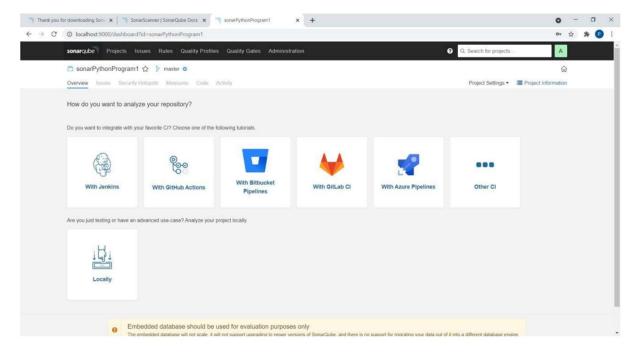
Login using credentials as User: admin and Password: admin and Set a new password



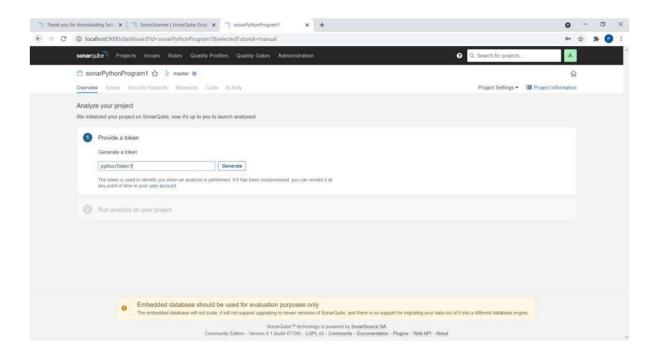
Click on Create a project Manually.



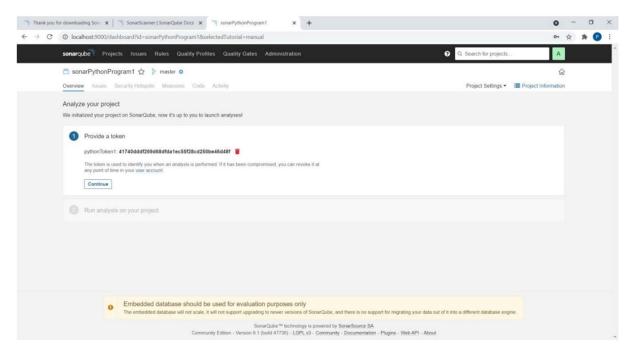
Give any Project display name.



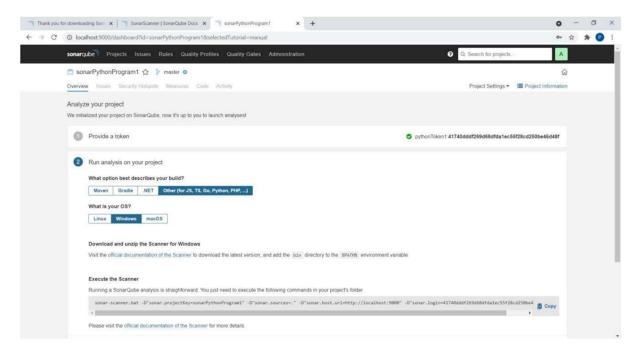
Click on Locally.



Give any name to token and click on Generate.



Click on Continue.



Save a Python program in a folder.

class Solution(object):

def romanToInt(self, s):

roman =

num =

while i < len(s):

if i+l<len(s) and s[i:i+2] in roman:

num+=roman[s[i:i+2]]

else:

#print(i)

num+=roman[s[i]]

return num

obl = Solution()

print(obl I"))

print(obl . I")

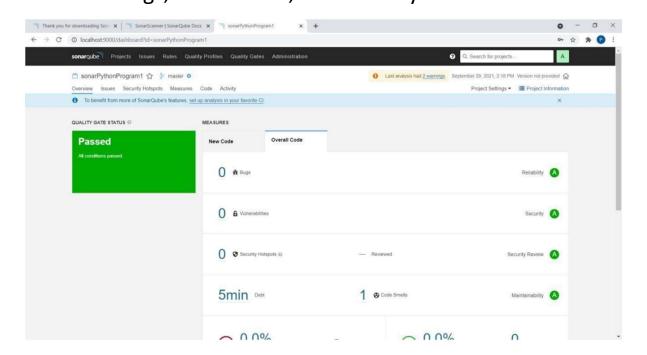
Open command prompt in this folder and Run program using copied command.

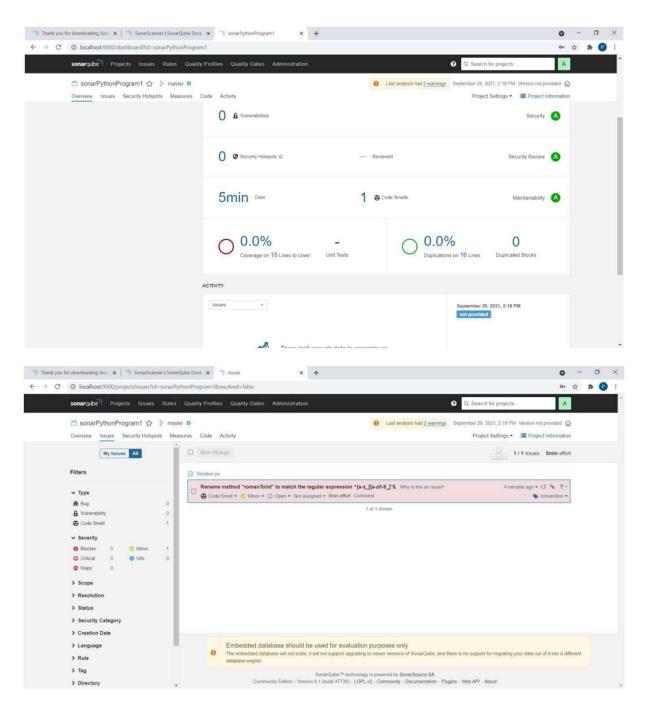
sonar-scanner.bat -D"sonar.projectKey=<YourDisplayName>" -

D"sonar.sources=." -D"sonar.host.url=http://localhost:9000" -D"sonar.login=<YourTokenGeneratedID>'

```
NOTO: Sensor Will Project type Information (where)
NOTO: Sensor Will Properties (where) (time-lime
NOTO: Sensor Proc Coverage Sensor
NOTO: S
```

Given below is the inspection of code quality to perform automatic reviews with static analysis of code to detect bugs, code smells, and security vulnerabilities.





Press "Ctrl + C" to stop the server.

```
Command Forms

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```

Conclusion:

In this assignment we implemented static analysis on python programs using SonarCube

SAST processes.