Cuitlahuac Hernandez

Module 2.2 Assignment

10/27/2024

Python Program

```
def calculate_area(radius):

        import math

        return math.pi * (radius ** 2)

radius = float(input("Enter the radius: "))

area = calculate_area(radius)

print(f"The area of the circle is: {area}")
```


Flowchart:

Top window — debugging.py

RUN AND DEB... | Python Deb

VARIABLES
- Locals
  - math = <module 'math' from '/Library_
  - radius = 9.0
- Globals

```python
def calculate_area(radius):
    import math

    return math.pi * (radius ** 2)

radius = float(input("Enter the radius: "))
area = calculate_area(radius)
print(f"The area of the circle is: {area}")
```

TERMINAL

```
cuit.jr@Cuitlahuacs-MacBook-Pro module-2 % /usr/bin/env /usr/local/bin/python3 /Users/cuit.jr/.vscode/extensions/ms-python.debugpy-2024.12.0-darwin-arm64/bund
led/libs/debugpy/adapter/../../debugpy/launcher 50506 -- /Users/cuit.jr/csd/csd-325/module-2/debugging.py
Enter the radius: 9
```

WATCH

CALL STACK — Paused on breakpoint
- calculate_area   debugging.py 3:1
- <module>   debugging.py 6:1

BREAKPOINTS
- ☐ Raised Exceptions
- ☑ Uncaught Exceptions
- ☐ User Uncaught Exceptions
- ☑ debugging.py 4

Ln 4, Col 1 | Spaces: 4 | UTF-8 | LF | {} Python 3.12.5 64-bit | Tabnine: Sign-in is required

---

Bottom window — debugging.py

RUN AND DEB... | Python Deb

VARIABLES
- Locals
  - special variables
  - function variables
    - (return) c... 4.469004...
    - radius = 9.0
  - Globals

```python
def calculate_area(radius):

    return math.pi * (radius ** 2)

radius = float(input("Enter the radius: "))
area = calculate_area(radius)
print(f"The area of the circle is: {area}")
```

TERMINAL

```
cuit.jr@Cuitlahuacs-MacBook-Pro module-2 % /usr/bin/env /usr/local/bin/python3 /Users/cuit.jr/.vscode/extensions/ms-python.debugpy-2024.12.0-darwin-arm64/bund
led/libs/debugpy/adapter/../../debugpy/launcher 50506 -- /Users/cuit.jr/csd/csd-325/module-2/debugging.py
Enter the radius: 9
```

WATCH

CALL STACK — Paused on step
- <module>   debugging.py 6:1

BREAKPOINTS
- ☐ Raised Exceptions
- ☑ Uncaught Exceptions
- ☐ User Uncaught Exceptions
- ☑ debugging.py 4

Ln 6, Col 1 | Spaces: 4 | UTF-8 | LF | {} Python 3.12.5 64-bit | Tabnine: Sign-in is required