**Python beginners learning guide**

**1. introduction**

**2. installing python and pycharm**

**3. setup and hello world**

print("Hello World")

**4. Drawing a shape**

print(" /|")

print(" / |")

print("/\_\_|")

**5. Variables and Data types**

print("John is a man")

print("John's age is 50")

print("John lives happily")

print("But John is not happy of him being 50")

name="John"

age = "50"

print(name + " is a man")

print("John's age is " + age)

name="Ben"

age = "35"

print(name + " lives happily")

print("But " + name + " is not happy of him being " + age)

**6. Working with strings**

phrase="Python programming"

print(phrase)

#converting string to lower case#

phrase="Python programming"

print(phrase.lower())

#converting string to upper case#

phrase="Python programming"

print(phrase.upper())

#to check if a string is in upper case#

phrase="Python programming"  
print(phrase.isupper())

Output:

False

#combination of functions#

phrase="Python programming"  
print(phrase.upper().isupper())

Output:

True

#Get no of characters in string using length function#

phrase="Python programming"  
print(len(phrase))

Output:

18

#Get the first character in a string#

phrase="Python programming"  
print(phrase[0])

Output:

P

#Get the index of a character within a string using 'index' function#

phrase="Python programming"  
print(phrase.index("y"))

Output:

1

#'replace' function to replace characters#

phrase="Python programming"  
print(phrase.replace("programming","scripting"))

output:

Python scripting

**7. Working with numbers**

**8. Getting input from users**

**9. building a basic calculator**

**10. Mad libs Game**

**11. Lists**

**12. List Functions**

**13. Tuples**

**14. Functions**

**15. Return statement**

**16. If statement**

**17. If statements and comparisons**

**18. Building a better calculator**

**19. Dictionaries**

**20. While loop**

**21. Building a Guessing game**

**22. For loop**

**23. Exponent Function**

**24. 2D lists and nested loop**

**25. Building a Translator**

**26. Comments**

**27. Try/Except**

**28. Reading Files**

**29. Writing a file**

**30. Modules and pip**

**31. Classes and Objects**

**32. Building a Multiple choice quiz**

**33. Object Function**

**34. Inheritance**

**35. Python interpreter**