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In [2]: # Day 2: 30 Days of python programming
# Variable Declarations
first_name = 'John'
last_name = 'Doe'
full_name = first_name + ' ' + last_name
country = 'India'
city = 'Vizag'
age = 20
year = 2025
is_married = False
is_true = True
is_light_on = False
a, b, c = 10, 20, 30
# Checking data types
print(type(first_name))
print(type(last_name))
print(type(full_name))
print(type(country))
print(type(city))
print(type(age))
print(type(year))
print(type(is_married))
print(type(is_true))
print(type(is_light_on))

# Length of first name
print('Length of first name:', len(first_name))

# Compare Length of first and Last name
print('Is first name longer than last name?', len(first_name) > len(last_name))

# Arithmetic operations
num_one = 5
num_two = 4
total = num_one + num_two
diff = num_one - num_two
product = num_one * num_two
division = num_one / num_two

print('Total:', total)
print('Difference:', diff)
print('Product:', product)
print('Division:', division)
remainder = num_two % num_one
exp = num_one ** num_two
floor_division = num_one // num_two

print('Remainder:', remainder)
print('Exponent:', exp)
print('Floor Division:', floor_division)
```

```
<class 'str'>
<class 'str'>
<class 'str'>
<class 'str'>
<class 'str'>
<class 'int'>
<class 'int'>
<class 'bool'>
<class 'bool'>
<class 'bool'>
Length of first name: 4
Is first name longer than last name? True
Total: 9
Difference: 1
Product: 20
Division: 1.25
Remainder: 4
Exponent: 625
Floor Division: 1
```

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In [3]: # Circle calculations
radius = 30
pi = 3.14159
area_of_circle = pi * radius ** 2
circum_of_circle = 2 * pi * radius
print('Area of circle:', area_of_circle)
print('Circumference of circle:', circum_of_circle)

# User input radius
user_radius = float(input('Enter radius: '))
user_area = pi * user_radius ** 2
print('Area with user input radius:', user_area)
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Area of circle: 2827.431
Circumference of circle: 188.4954
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Enter radius: 5
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Area with user input radius: 78.53975
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In [4]: # Getting user input for personal information
first_name_input = input('Enter your first name: ')
last_name_input = input('Enter your last name: ')
country_input = input('Enter your country: ')
age_input = input('Enter your age: ')

print('First Name:', first_name_input)
print('Last Name:', last_name_input)
print('Country:', country_input)
print('Age:', age_input)
```

```
Enter your first name: Mahesh
Enter your last name: chowdary
Enter your country: india
Enter your age: 19
```

```
First Name: Mahesh
Last Name: chowdary
Country: india
Age: 19
```

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In [5]: # Display Python reserved keywords
help('keywords')
```

Here is a list of the Python keywords. Enter any keyword to get more help.

False	class	from	or
None	continue	global	pass
True	def	if	raise
and	del	import	return
as	elif	in	try
assert	else	is	while
async	except	lambda	with
await	finally	nonlocal	yield
break	for	not	

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In [ ]:
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