Day 2: EXERCISE – 2

INTERNSHIP TASKS

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Course : Python

Org : IGIAT – VSKP

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**Level – 1:**

#Task 1 : Inside 30DaysOfPython create a folder called "day\_2". Inside the folder create a file named 'variables.py'

#Task 2 : Write a python comment saying 'Day 2: 30 Days of python programming'

#Task 3 : Declare a first name variable and assign a value to it.

first\_name = "Deva Manikanta"

#Task 4 : Declare a last name variable and assign a value to it.

last\_name = "Sala"

#Task 5: Declare a full name variable and assign a value to it.

full\_name = "Deva Manikanta Sala"

#Task 6: Declare a country variable and assign a value to it.

country = "India"

#Task 7: Declare a city variable and assign a value to it.

city = "Palacole"

#Task 8: Declare an age variable and assign a value to it.

age = 20

#Task 9: Declare a year variable and assign a value to it.

year = 2024

#Task 10: Declare a variable is\_married and assign a value to it.

is\_married = False;

#Task 11: Declare a variable is\_true and assign a value to it.

is\_true = True;

#Task 12: Declare a variable is\_light\_on and assign a value to it.

is\_light\_on = False;

#Task 13: Declare multiple variable on one line.

a, b, c = 10, 20, 30;

**Level – 2:**

#Task 1 : Check the data type of all you variables using "type()" built-in function.

print("Type of first\_name : ", type(first\_name));

print("Type of last\_name : ", type(last\_name));

print("Type of full\_name : ", type(full\_name));

print("Type of country : ", type(country));

print("Type of city : ", type(city));

print("Type of age : ", type(age));

print("Type of year : ", type(year));

print("Type of is\_married : ", type(is\_married));

print("Type of is\_true : ", type(is\_true));

print("Type of is\_light\_on : ", type(is\_light\_on));

print("Type of a : ", type(a));

print("Type of b : ", type(b));

print("Type of c : ", type(c));

print("\n\n");

#Task 2 : Using the 'len()' built-in function, find the length of your first name

print(f"Length of First Name - \"{first\_name}\": {len(first\_name)}");

#Task 3 : Compare the length of your first name and your last name

print(f"\nThe Length of First Name - \"{first\_name}\" : {len(first\_name)} and Last Name - \"{last\_name}\" : {len(last\_name)}");

print(f"lengths of first\_name > last\_name: ", (len(first\_name) > len(last\_name)));

print(f"lengths of last\_name > first\_name: ", (len(last\_name) > len(first\_name)));

#Task 4 : Declare 5 as num\_one and 4 as num\_two

num\_one, num\_two = 5, 4;

# 4.a) Add num\_one and num\_two and assign the value to a variable total

total = num\_one + num\_two;

print("Total : ", total);

# 4.b) Subtract num\_two from num\_one and assign the value to a variable diff

diff = num\_two - num\_one;

print("Diff : ", diff);

# 4.c) Multiply num\_two and num\_one and assign the value to a variable product

product = num\_two \* num\_one;

print("Product : ", product);

# 4.d) Divide num\_one by num\_two and assign the value to a variable division

division = num\_one/num\_two;

print("Division : ", division);

# 4.e) Use Modulus division to find num\_two divided by num\_one and assign the value to a variable remainder

remainder = num\_two % num\_one;

print("Remainder : ", remainder);

# 4.f) Calculate num\_one to the power of num\_two and assign the value to a variable exp

exp = num\_one \*\* num\_two;

print("Exp : ", exp);

# 4.g) Find the floor division of num\_one by num\_two and assign the value to a variable floor\_division

floor\_division = num\_one // num\_two;

print("Floor Division : ", floor\_division);

#Task 5: The Radius of a Circle is 30 meters.

# 5.a) Calculate the area of circle and assign the value to a variable name of area\_of\_circle.

# 5.b) Calculate the circumference of a circle and assign the value of a variable name of circum\_of\_circle.

# 5.c) Take radius as user input and calculate the area and circumference

import math;

radius = float(input("\n\nEnter the radius : "));

area\_of\_circle = math.pi \* (radius \*\* 2); # πr²

circum\_of\_circle = 2 \* math.pi \* radius; # 2πr

print(f"Area of Circle with radius({radius}) : ", area\_of\_circle);

print(f"Circumference of Circle with radius({radius}) : ", circum\_of\_circle);

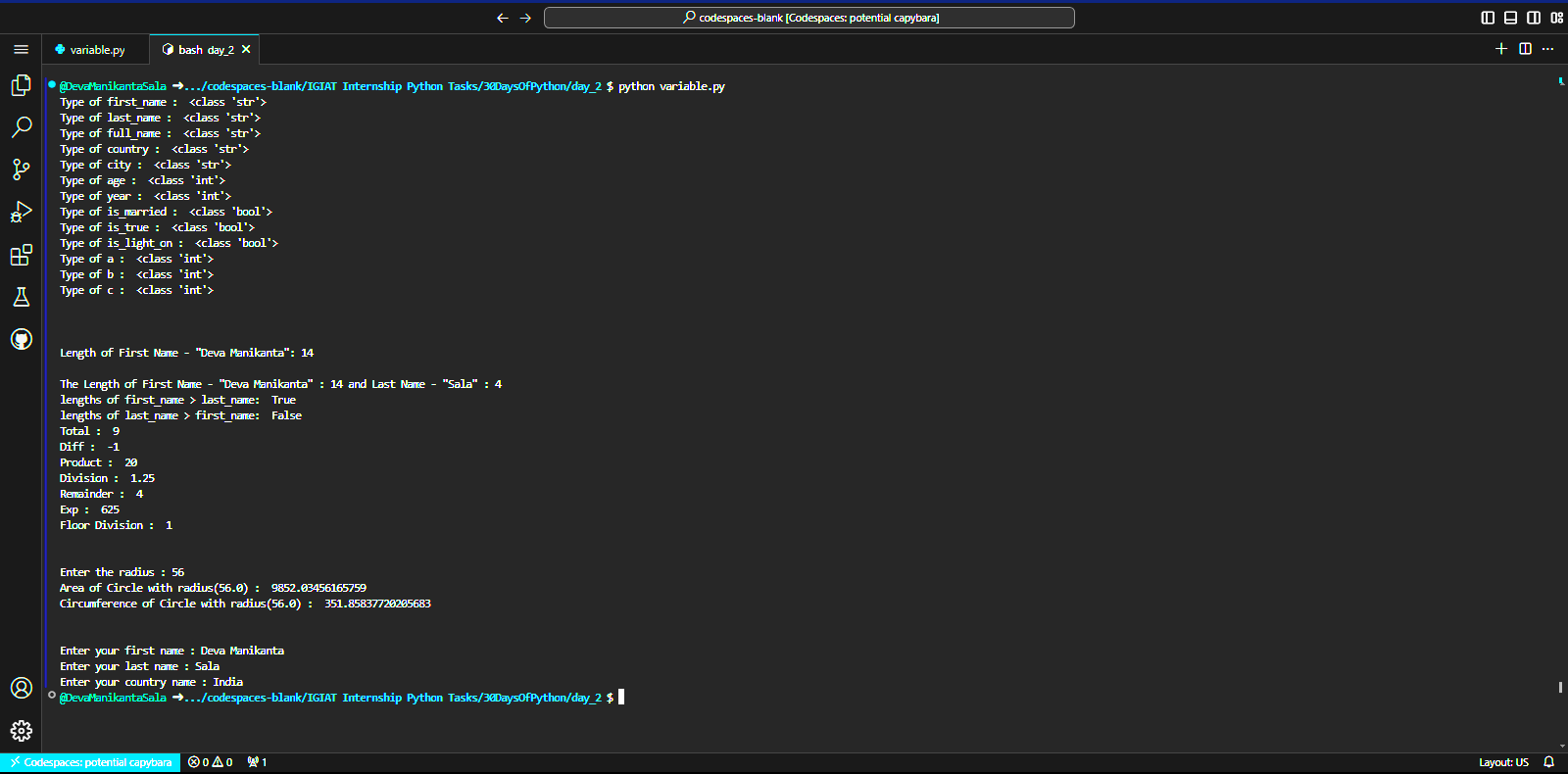
#Task 6: Use the built-in input function to get first name, last name, country and age from a user and store the value to their corresponding variable names.

first\_name = input("\n\nEnter your first name : ");

last\_name = input("Enter your last name : ");

country = input("Enter your country name : ");

**OUTPUT:**

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#Task 7: Run help('keywords') in Python shell or in your file to check for the Python reserved words or keywords. – screeshot as follows in shell..

