Full Stack Web Development using Python on Django

Assignment-1: Warmup

1. Who developed Python?

2. When was the first version of Python launched?

3. "Python is a platform independent language" - True or False

4. How to make single line comment in a python file?

5. "Python is a statically typed programming language" - True or False

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Assignment-2: Fundamentals of Python

1. Write a command to get the Python version you are using.

2. What is PVM?

3. How to create .pyc (Byte Code) file from python source file?

4. How to run a Python file from command prompt or terminal?

5. "Data Types in Python are not keywords" - True or False

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Assignment-3: Simple problems on print

1. Write a python script to print MySirG on the screen.

2. Write a python script to print MySirG on the first line and Education Services on the second line.

3. Write a python script to print "MySirG" on the screen. (Remember to print double quotes)

4. Write a Python script to print "Teacher's Day" on the screen. (Remember to print double quotes and single quote)

5. Write a python script to print \n on the screen.

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Assignment-4: playing with variables

1. Write a python script containing a variable with some integer value, print value of this variable.

2. Write a python script to print the value of a variable. Variable contains your name as data.

3. Write a python script to print values of three variables, each in a new line. All three variables are filled with some integer values.

4. Create 5 variables each of them containing different types of data (like 35, True, "MySirG", 5.46, 3+4j, etc). Write a python script to print values of all the variables along with their data types.

5. Create three variables and assign current date to them, first variable contains day number, second variable contains month number and third variable contains year number. Write a python script to display date in standard way (e.g. 29/11/2022)

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Assignment-5: import and keywords

1. Write a python script to print all the keywords on the screen.

2. Use help section on python shell to see all the keywords.

3. Create two Python files A0.py and A1.py. Create a variable in A1.py and assign some value to it. Write a Python script to import A1 module in A0 and print value of the variable created in A0.py

4. Out of all the keywords, name those keywords which are used as data.

5. What is the use of del keyword?

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Assignment-6: Type Conversion

1. Write a python script to convert a number into str type.

2. Write a python script to print Unicode of the character 'm'

3. Write a python script to print character representation of a given unicode 100.

4. Write a python script to convert a str type data into an int type. Also describe when a str type value is not possible to convert into an int type.

5. How to convert an integer value into a bool value?

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Assignment-7: Number System

1. Write a python script to print any number and its binary equivalent.

2. Write a python script to store binary number 1100101 in a variable and print it in decimal format.

3. Write a python script to store a hexadecimal number 2F in a variable and print it in octal format.

4. Write a python script to store an octal number 125 in a variable and print it in binary format.

5. Write a python script to add two numbers 25(in octal) and 39 (in hexadecimal) and display the result in binary format.

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Assignment-8: Input from keyboard

1. Write a python script to take your name as input from the user and then print it.

2. Write a python script to take input two numbers form the user, then calculate their sum and display the result.

3. Write a python script which takes the radius from the user and display area of the circle.

4. Write a python script to calculate square of a number. Number is entered by the user.

5. Write a python script which takes a character from the user and display its unicode.

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Assignment-9: Simple calculations on user data

1. Write a python script to calculate simple interest.

2. Write a python script to calculate area of a rectangle.

3. Write a python script to calculate average of three numbers entered by user.

4. Write a python script to calculate volume of a cuboid.

5. Write a python script to take two numbers from user (say x and y), now calculate xy and display the result.

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Assignment-10: Operators

1. Write a python script to remove the last digit from a given number. (for example, if user enters 2534 then your output should be 253)

2. Write a python script to get the last digit from a given number. (for example, if user enters 2089 then your output should be 9)

3. Write a python script to swap data of two variables

4. Write a python script which takes a three digit number from the user and displays only its first digit.

5. Write a python script which takes a three digit number from the user and displays only its middle digit.

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Assignment-11: More on Operators

1. Write a python script to print True if the string 'my' is a member in a string entered by user.

2. Write a python script to input two strings from the user and display whether the two variables referred to the same object or not. Print True or False.

3. What will be the output of the python expression 5>10<5 ?

4. What will be the output of the python expression "Red" and "White" ?

5. What will be the output of the python expression True or False ?