**Mid Term – Practice Exam**

1:

Output of the code:

Enter an integer value:500

The user has entered this value: 500

Description:

anIntValue will be assigned with value from user by providing in the output section with the help of input() of Python. Next, the user entered value will be stored in variable named anIntValue and printed in the output section. Here, I entered 500 as an input

2:

The code gives an error.

Error correction:

Correct code for this question is “Print” needs to be replaced with “print” at line 3

Correct Output:

Data type of x: <class 'float'>

Data type of y: <class 'int'>

Description:

In this code, variable x and y are declared with values 10.5 and 5. In the next line, data types of these variables are printed using type and print functions.

3:

The code gives an error,

Error Correction:

In this code, there is a misspell of the variable name, aDaystring. We need to correct the spelling of the variable in line 2.

Correct Output:

['6', '1', '2021']

Description of the code:

A variable aDaystring declared with value 6/1/2021. Next, aDaystring variable is splitted by ‘/’ separator and assigned to aList variable. Finally, we are printing the aList variable

4:

The code gives an error.

Error Correction:

In this code, ‘]’ is used in place of ‘)’. Therefore, that is the correction of code.

Correct Output:

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20]

Description of the code:

Serial numbers are created using range function of Python and casted to list by using list function. Data range is from 1 to 20.

5:

The code gives an error.

Error Correction:

Range function with uppercase ‘R’ is used, which is incorrect in python. Hence replace it with range function with lowercase ‘r’ at line 1.

Correct Output:

[0, -3, -6, -9, -12, -15, -18]

Description of the code:

Serial numbers from 0 to -20 with steps of -3 are created using range function and casted to list by using list function.

6:

The code gives an error.

Error Correction:

Import keyword with uppercase ‘I’ is used, which is incorrect in python. Hence replace it with import function with lowercase ‘i’ at line 1.

Correct Output:

0

0 5

1 10

2 33

3 14

4 245

Description of the code:

Importing pandas library. A list, aList is assigned with values [5,10,33,14,245]. Pandas dataframe is created using list and assigned to variable df and printing it in the output.

7:

The code gives an error.

Error Correction:

Python is case-senitive language. Hence df and DF are not equal. We need to replace DF with df in line 4.

Correct Output:

Name Age Time

1st Place Sally 20 2.00

2nd Place Joe 30 2.20

3rd Place Jose 40 2.50

4th Place Susan 25 2.55

5th Place Saanvi 23 3.00

Description of the code:

Importing pandas library. A dictionary is created with 3 keys Name, Age and Time and certain values. Pandas dataframe ,df is created with data as above dictionary and index parameter is provided for indexing of data and printing the df at output.

8:

The code gives an error.

Error Correction:

Column name at line 7 is not correct. There is no column named five which is used in place of three. Hence replace df[‘five’] with df[‘three’].

Correct Output:

one two three

t NaN 10.0 NaN

v 5.0 NaN 20.0

w 4.0 5.0 NaN

x 3.0 NaN NaN

y 2.0 2.0 30.0

z 1.0 1.0 1.0

one two three four

t NaN 10.0 NaN NaN

v 5.0 NaN 20.0 25.0

w 4.0 5.0 NaN NaN

x 3.0 NaN NaN NaN

y 2.0 2.0 30.0 32.0

z 1.0 1.0 1.0 2.0

Description of the code:

Pandas library is imported into the code. A dictionary is created with columns ‘one’ and ‘two’. A dataframe, df is created with data as dictionary which created earlier. A new column ‘three’ is added into dataframe, df with some values and printing the df. Next, new column ‘four’ is added to dataframe with values summed up from columns ‘one’ and ‘three’.

9:

The code gives an error.

Error Correction:

Incorrect use of sum function on variable. We need to replace y with x so that sum function will be applied on array

Correct Output:

array([15, 18, 21, 24, 27])

Description of the code:

Importing the numpy library and series of numbers is created with arange function upto 14 and reshaped it into 3x5 matrix. Finally, sum function is applied on the matrix.

10:

The code gives an error.

Error Correction:

We cannot change the values in tuple after initialized hence that gives an error.

Correct Output:

No output from code as we did not print

Description of the code:

A tuple aTuple variable is initialized with some values in it.

11:

Error Correction:

In this code, there is a misspell of the variable name, sample\_string. We need to correct the spelling of the variable to sampl\_string at line 2.

Correct Output:

's a Wonderful L

Description of the code:

New variable, sampl\_string is initialized with some value and printing the substring('s a Wonderful L) of it at the output.

12:

Output of the code:

Hello and welcome to my interactive tutorial.

What is your name? ajith

What is your age? 24

What city do you reside in? denton

What is your email? muniajithkumargollagunta@my.unt.edu

Thank you very much ajith, you will be contacted at muniajithkumargollagunta@my.unt.edu.

Create a password: ajith

Welcome to the portal ajith

Please enter your password: ajith

Successful! Welcome back ajith

Description of the code:

In this code, the multiple user attributes are read into the code using input function and stored in respective variables and thank you message is printed at the end of the code 1. In the second code, password and password\_check variables created to enter user password and checking whether they are same. Prints “Successful! Welcome back ajith” on equal and prints sorry message otherwise.