## **Assignment Instructions**

Hello Innominion,

- · Try to attempt all the questions in every possible way.
- Some other topics are required to solve some questions. don't panic.
- Those questions can be answered after the topics are taught.
- Join Mentoring Session for the Support/Doubts Resolving with Our Technical Mentors (2.00 PM - 6.00 PM Mon-Sat)

Happy Learning !!!

## **Basics of Python**

```
Question: Print your name
```

```
In [1]: print("my name is DineshReddy")
```

my name is DineshReddy

Question: What is a variable? Write a Few words about Variables. Create a Variable with an Example.

```
In [2]: var1="""variables are used to store the collection of data or values.
1.variables used for store the value using assign(=) operater.
2.variable values may be in the form of int,float,str it changeable if we change
```

```
In [3]: variable="1,2,3"
print(variable)
```

1,2,3

Question: Assume that we execute the following assignment statements: width = 17 height = 12.0 delimiter = '.' For each of the following expressions, write the value of the expression and the type (of the value of the expression).

- 1. width/2
- 2. width/2.0
- 3. height/3

```
4. 1 + 2 * 5
5. delimiter * 5
```

```
In [4]: # CODE HERE
        width1=17/2
        width2=17/2.0
        height=12.0/3
        value=1+2*5
        delimiter='.'
        v=delimiter*5
        print(width1)
        print(width2)
         print(height)
         print(value)
        print(v)
        8.5
         8.5
         4.0
         11
         . . . . .
        # Sample Outputs
        1. width/2 = 8.5
         2. width/2.0 = 8.5
        3. height/3 = 4.0
        4. 11
        5. .....
```

Question: Add two number by taking variable names as first and seccond

```
In [5]: # CODE HERE
    first=10
    second=25
    print(first+second)

35
In [6]: x=100
    y=200
    biodata="first number is:{},second number is:{},addition of two numbers are:{}".1
    biodata
Out[6]: 'first number is:100,second number is:200,addition of two numbers are:300'
```

Question: Add your first name and second name

```
In [7]: x="Dinesh"
    y="Kumar"
    biodata="first name is:{}, full name is:{}".format(x,y,x+y)
    biodata
```

Out[7]: 'first name is:Dinesh, second name is:Kumar, full name is:DineshKumar'

```
Question: print the datatypes of the following
```

• 10,'10',True,10.5

```
In [8]: # CODE HERE
```

```
In [9]: x=-10
    y=10
    z=True
    r =10.5
    print(type(x))
    print(type(y))
    print(type(z))
    print(type(z))
```

```
<class 'int'>
<class 'int'>
<class 'bool'>
<class 'float'>
```

## Question:

- num\_int = 123num\_str = "456"
- Add num\_int and num\_str
- hint: first need to convert num\_str into integer

## **Advanced Questions**

Question: The volume of a sphere with radius r is  $4/3\pi r3$ . What is the volume of a sphere with radius 5?

```
In [12]: v=4/3*3.14*5**3 v
```

Out[12]: 523.3333333333334

Question: Suppose the cover price of a book is Rs.24.95, but bookstores get a 40% discount. Shipping costs Rs.3 for the first copy and 75 paise for each additional copy. What is the total wholesale cost for 60 copies?

```
In [13]: CODE HERE
         rint("Actual price=24.95")
         rint("Discount=0.40%")
         rint("After discount price=14.97")
         rint("Shipping cost for single book=3")
         rint("Remaining copies cost=0.75")
         rint("Total wholesale cost for 60 copies=?")
         alue1=14.97+3
         alue2=(14.97+0.75)*59
         ptal_cost_of_copies="first copy cost {},fifty nine copies cost {},total cost of columns
         btal_cost_of_copies
         Actual price=24.95
         Discount=0.40%
         After discount price=14.97
         Shipping cost for single book=3
         Remaining copies cost=0.75
```

Out[13]: 'first copy cost 17.97, fifty nine copies cost 927.48, total cost of copies 945.4 5'

Total wholesale cost for 60 copies=?