**Course Name: Python Programming with Django**

**Name: Bipul Dutta**

**Batch ID: 13328**

**Order No: 4099423**

**Assignment- 01. Date: 24.03.22**

**Problem-1:**

**Ques 1.** Declare a variable named integer\_number of the data type int that is assigned the value 404.

**Ans:** int\_num = 404

print(“int num – “, int\_num)

**Ques 2.** Secondly, declare a variable named float\_number of the data type float that

is assigned the value 575.404

**Ans:** float\_num = 575.404

print(“float num – “, float\_num)

**Ques 3.** Convert the variable value from data type int to data type float. Save the new

variable to a new variable integer\_float\_number

**Ans:** int\_num = 100

convert\_float\_from\_int = float(int\_num)

Print(“int\_float\_num – “, convert\_float\_from\_int)

**Ques 4.** Sum the variable integer\_number and integer\_float\_number and assign

the value to a new variable which is assigned the name sum\_two\_number of

type float.

**Ans:** int\_num = 50

float\_num = 75.5

sum = float(int\_num + float\_num)

print(“sum\_two\_numer – “, sum)

**Ques 5.** Print the result of sum\_two\_number

Ans:

num1 = 30

num2 = 50

sum = num1 + num2

print(sum)

**Problem 2:**

**Ques 6.** What is variable and data type in Python?

Ans: Variables are containers for storing data values.

**Ques 7.** Is python a case-sensitive language? [Yes/No]

Ans: Yes.

**Ques 8.** In Python, a variable may be assigned a value of one type, and then later

assigned a value of a different type? [True/False]

Ans: True.

**Ques 9.** What are the common built-in data types in Python?

Ans: Built-in data types are: int, float, complex, list, tuple, range.

**Ques 10.** Write a Python program that prints the “Hello World!”

Ans: print(“Hello World!”)

**Ques 11.** What is Python? What are the benefits of using Python?

Ans: Python is a high level programming language. It is easy to read, write and learn. Python is very productive language, interpreted language, free and open source.

**Ques 12**. Write a Python program that takes your name as input and prints the name.

Ans: name = input(‘What is your name? ‘)

print(“Hi” , name)

**Course Name: Python Programming with Django**

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**Assignment- 02. Date: 30.03.22**

**Ques-1:**

"""

01. The length and breadth of a rectangle are 10 and 20 respectively. Write a program

to calculate the area and perimeter of the rectangle.

Area = Length \* Breadth

Perimeter = 2 \* Length \* Breadth

"""

lenth = 10

breadth = 20

area = lenth \* breadth

perimeter = 2 \* lenth \* breadth

print("Area of the Rectangle: ", area)

print("Perimeter of the Rectangle: ", perimeter)

"""

output:

area = 200

perimeter = 400

"""

"""

02. Write a program to calculate the perimeter of a triangle having sides of length

200,300 and 500 units.

Perimeter = a + b + c

"""

a = 200

b = 300

c = 500

perimeter = a + b + c

print("The perimeter of the triangle: ", perimeter)

"""

output: 1000

"""

"""

03. Write a program to add 10 to the number 1000 and then divide it by 30. Now, the

modulus of the quotient is taken with 50 and then multiply the resultant value by

15. Display the final result.

"""

num = 10

num += 1000

print(num) #output = 1010

"""

Now i want to divided this value by 30

"""

div = num / 30

print(div) #output = 33.666666666666664

#modules

modules = div % 50

print(modules) #output 33.666666666666664

#we have to multiple by 15 and the result will be-

final\_result = modules \* 15

print("The Final Result: ", final\_result)

#The final result is: 504.99999999999994

"""

04. Write a program to check if the two numbers 100 and 500 are equal.

"""

num1 = 100

num2 = 500

equal\_to = num1 == num2

print(equal\_to)

#Output: False

"""

5. Given a number, check if it is odd or even.

"""

value = int (input("Enter a value to test odd or even: "))

if(value % 2) == 0:

print("The value is even")

else:

print("The value is odd")