PYTHON – WORKSHEET 1

1. Which of the following operators is used to calculate remainder in a division?

Ans: C) %

1. In python 2//3 is equal to?

Ans: B) 0

1. In python, 6<<2

Ans: A) 36

1. In python, 6&2 will give which of the following as output?

Ans: B) True

1. In python, 6|2 will give which of the following as output?

Ans: D) 6

1. What does the finally keyword denotes in python?

Ans: C) the finally block will be executed no matter if the try block raises an error or not

1. What does raise keyword is used for in python?

Ans: A) It is used to raise an exception.

1. Which of the following is a common use case of yield keyword in python

Ans: C) in defining a generator

1. Which of the following are the valid variable names?

Ans: A) \_abc C) abc2

1. Which of the following are the keywords in python?

Ans: A) yield B) raise

1. Write a python program to find the factorial of a number.

def factorial(x):

    if x == 1:

        return 1

    else:

        return (x \* factorial(x-1))

num = 7

result = factorial(num)

print("The factorial of", num, "is", result)

1. Write a python program to find whether a number is prime or composite.

def prime\_or\_composite(num):

  if num <= 1:

      print(num, "is not a prime number")

  elif num > 1:

    for i in range(2,num):

        if (num % i) == 0:

            print(num,"is not a prime number")

            print(i,"times",num//i,"is",num)

            break

    else:

        print(num,"is a prime number")

prime\_or\_composite(701)

1. Write a python program to check whether a given string is palindrome or not

Str = "malayalam"

rev\_Str = Str[::-1]

if Str == rev\_Str:

  print("Palindrome")

else:

  print("Not palindrome")

1. Write a Python program to get the third side of right-angled triangle from two given sides.

def get\_third\_side(side1,side2):

  return ((side1)\*\*2 + (side2\*\* 2))\*\*0.5

print(get\_third\_side(2,3))

1. Write a python program to print the frequency of each of the characters present in a given string

dicts = {}

strings = "Write a python program to print the frequency of each of the characters present in a given string"

for str in strings.split():

  if str in dicts.keys():

    dicts[str] += 1

  else:

    dicts[str] = 1

print(dicts)