

# PYTHON – WORKSHEET 1

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

ANS. (C) %

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

ANS.(B) 0

3. In python, 6<<2 is equal to?

ANS. (C) 24

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

ANS.(A) 2

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

ANS.(D) 6

6. 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.

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

ANS.(A) It is used to raise an exception.

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

ANS.(C) in defining a generator

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

ANS.(D) None of the above

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

ANS.(D) all of the above

Q11 to Q15 are programming questions. Answer them in Jupyter Notebook.

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

```
import math
def factorial(n):
    return(math.factorial(n))
num = 5
print("Factorial of", num, "is",
      factorial(num))
```

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

```
num = 407

# To take input from the user
num = int(input("Enter a number: "))

if num == 1:
    print(num, "is not a prime number")
elif num > 1:
    # check for factors
    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")

# if input number is less than
# or equal to 1, it is not prime
else:
    print(num,"is not a prime number")
```

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

```
ANS.
x = "malayalam"
```

```
w = ""  
for i in x:  
    w = i + w
```

```
if (x == w):  
    print("Yes")  
else:  
    print("No")
```

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

```
height = int(input("Enter the height of the triangle :"))  
for i in range(1,height+1):  
    for j in range(1,i+1):  
        print(str(i)+" ", end="")  
    print()
```

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