# Python Worksheet

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: A) 0.666

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

Ans: A) 36

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: B) 4

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: A) \_abc

C)abc2

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.

def factorial(n):

    # single line to find factorial

    return 1 if (n==1 or n==0) else n \* factorial(n - 1);

# Driver Code

num = 5;

print("Factorial of",num,"is",

factorial(num))

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

**Answer**

#include<stdio.h>  
void main()  
{  
   int a,i;  
   clrscr();  
   printf("given number:");  
   scanf("%d",&a);  
     for(i=2;i<=a;i++)  
       {  
           if(a%i==0)  
            {  
                printf("%d is composite number",a);  
                break;  
            }  
          }  
           if(a==i)  
            printf("%d is prime number",a);  
       getch();  
}  
output of the above program is   
given number:17  
17 is prime number

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

my\_str = 'aIbohPhoBiA'

# make it suitable for caseless comparison

my\_str = my\_str.casefold()

# reverse the string

rev\_str = reversed(my\_str)

# check if the string is equal to its reverse

if list(my\_str) == list(rev\_str):

print("The string is a palindrome.")

else:

print("The string is not a palindrome.")