PYTHON Worksheet-1

1. C. %
2. B. 0
3. C. 24
4. A. 2
5. D. 6
6. C. The finally block will be executed no matter if the try block raises an error or not
7. A. It is used to raise an exception
8. C. In defining a generator
9. A. _abc
10. All of the above
11. Python program to find the factorial of a number:

```
Num=int(input('Enter a number')
Factorial=1
If num<0:
    Print('The factorial of a negative number doesn't exist')
Elif num==0:
    Print('The factorial of 0 is 1')
Else:
    For i in range (1,num+1):
        Factorial=factorial*i
    Print('The factorial of ',num,'is',factorial)
```

12. Python program to find whether the number is prime or composite

```
Num=int('Enter a number')
If num==1:
    Print(num,'It is neither a prime nor a composite number')
Elif num>1:
    For i in range(2,num):
        If(num%i)==0:
            Print(num,' it is not a prime but a composite number)
        Else:
            Print(num,' is a prime number')
Else:
    Print(num, 'it is not a prime but a composite number')
```

13. Whether a given string is palindrome or not

```
Word= input('Enter a word')
Reverse=reverse(word)
If list(word)==list(reverse):
Print(word,'is a palindrome')
Else:
Print(word,'is not a palindrome)
```

14. Python programme to get the third side of right angled triangle

```
Def Pythagoras(opposite_side,adjacent_side,hypotenuse):
    If opposite_side==str('x')
        Return('opposite= ',str((hypotenuse**2)-(opposite_side**2)**0.5))
    Elif adjacent_side==str('x')
        Return('adjacent_side= ',str(hypotenuse**2)-(opposite_side**2)**0.5))
    Elif hypotenuse==str('x')
        Return('hypotenuse= ',str(opposite_side**2)+(adjacent_side**2)**0.5)
    Else:
        Return('You know the answer')
```

15. Python program to print the frequency of each character present in a given string

```
From collections import Counter
string=input('Enter a sentence')
oops=Counter(string)
print('The occurrence of each character in string is ',oops)
```


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