

Python Worksheet - 1

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1. Which of the following operators is used to calculate remainder in a division?
C) %
2. In python 2//3 is equal to?
B) 0
3. In python, 6<<2 is equal to?
C) 24
4. In python, 6&2 will give which of the following as output?
A) 2
5. In python, 6|2 will give which of the following as output?
D) 6
6. What does the finally keyword denotes in python?
B) It encloses the lines of code which will be executed if any error occurs while executing the lines of code in the try block.
7. What does raise keyword is used for in python?
A) It is used to raise an exception.
8. Which of the following is a common use case of yield keyword in python?
C) in defining a generator
9. Which of the following are the valid variable names?
A) _abc , B) labc
10. Which of the following are the keywords in python?
A) yield B) raise

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

```
# To find the factorial
value=int(input("Enter the value"))
fact=1
if value<0:
    print("entered value is negative")
elif value==0:
    print("factorial if 0 is 1")
elif value==1:
    print("factorial of 1 is 1")
else:
    for i in range(1, value+1):
        fact=fact*i
print("The factorial ", value, "is", fact)
```

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

```
# for Prime no.detection
value=int(input("Enter a positive number to check it is prime or composite "))
if value>1:
    for i in range(2,value):
        if (value%i)==0:
            print(value, "is a Composite number")
            break
    else:
        print(value , " is a Prime number")
else:
    print(value, "is a Composite number")
```

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

```
# palindrome
s=input("Enter a word to check palindrome")

x=list(s)
y=[]
y.extend(x)
x.reverse()

if x==y:
    print("The", s, "is palindrome")
else:
    print("The", s, "is not palindrome")
```

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

```
# To find Hypoteneus of right angled triangle
x=int(input("Enter the first side"))
y=int(input("Enter the second side"))

hypo=(x**2)+(y**2)
hypo=hypo**(1/2)
print('the hypoteneus of the right angled trianle is ' , hypo )
```

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

```
sentence=input("enter the sentence ")
myset=set(sentence)
for i in myset:
    count=0
    for j in sentence:
        if (i==j):
            count=count+1
    print("count of ", i, " is ", count)
```