PYTHON - WORKSHEET 1

Q1 to Q8 have only one correct answer. Choose the correct option to answer your question.

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

A) # B) &
C) % D) $

Ans. %

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

A) 0.666 B) 0
C) 1 D) 0.67

Ans. 0

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

A) 36 B) 10
C) 24 D) 45

Ans. 24

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

A) 2 B) True
C) False D) 0

Ans. 2

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

A) 2 B) 4
C) 0 D) 6

Ans. 6

6. What does the finally keyword denotes in python?

A) It is used to mark the end of the code
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.
C) the finally block will be executed no matter if the try block raises an error or not.
D) None of the above

Ans. 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?

A) It is used to raise an exception. B) It is used to define lambda function
C) it's not a keyword in python. D) None of the above

Ans. It is used to raise an exception.

8. Which of the following is a common use case of yield keyword in python?
A) in defining an iterator B) while defining a lambda function
C) in defining a generator D) in for loop.

Ans. in defining a generator

Q9 and Q10 have multiple correct answers. Choose all the correct options to answer your question.

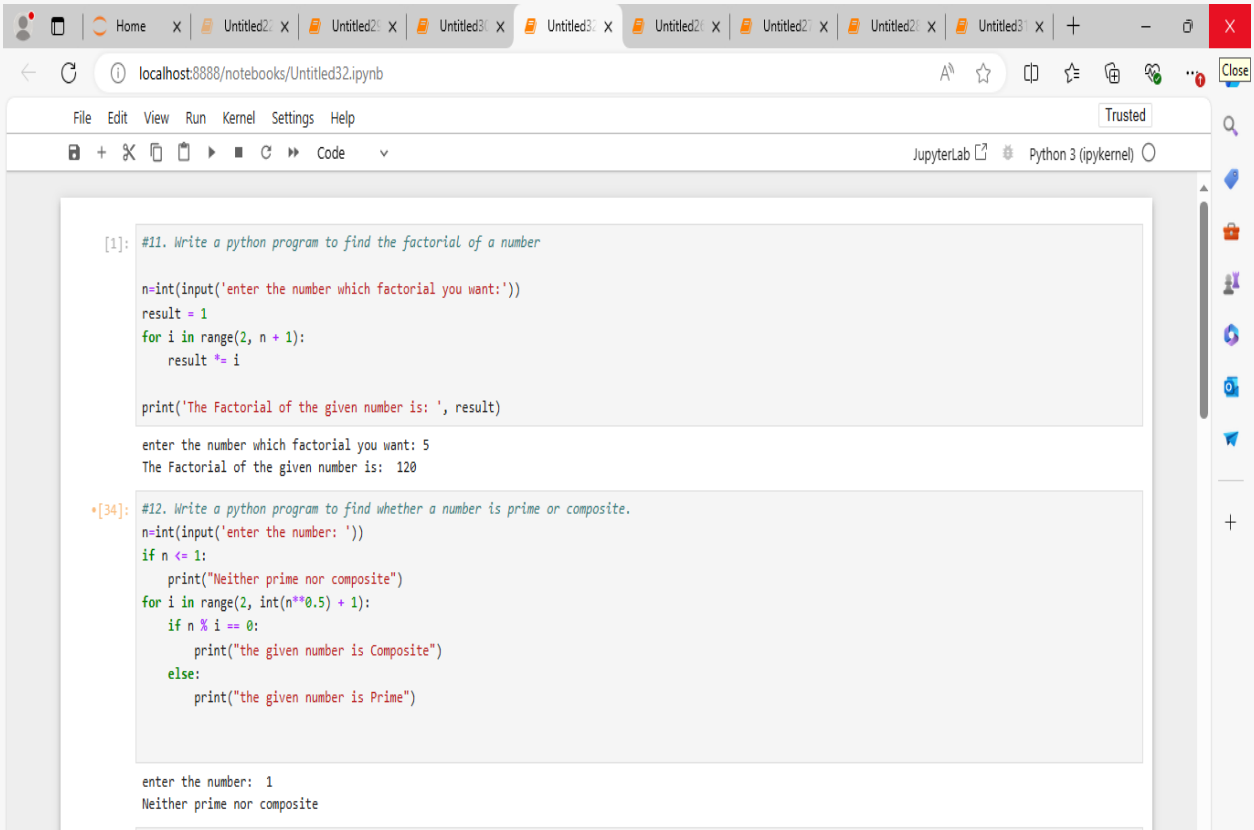
9. Which of the following are the valid variable names?
A) _abc B) 1abc
C) abc2 D) None of the above

Ans. abc,abc2

10. Which of the following are the keywords in python?
A) yield B) raise
C) look-in D) all of the above

Ans. yield, raise

Q11 and Q12



Q13.

```
enter the number:  1
Neither prime nor composite
```

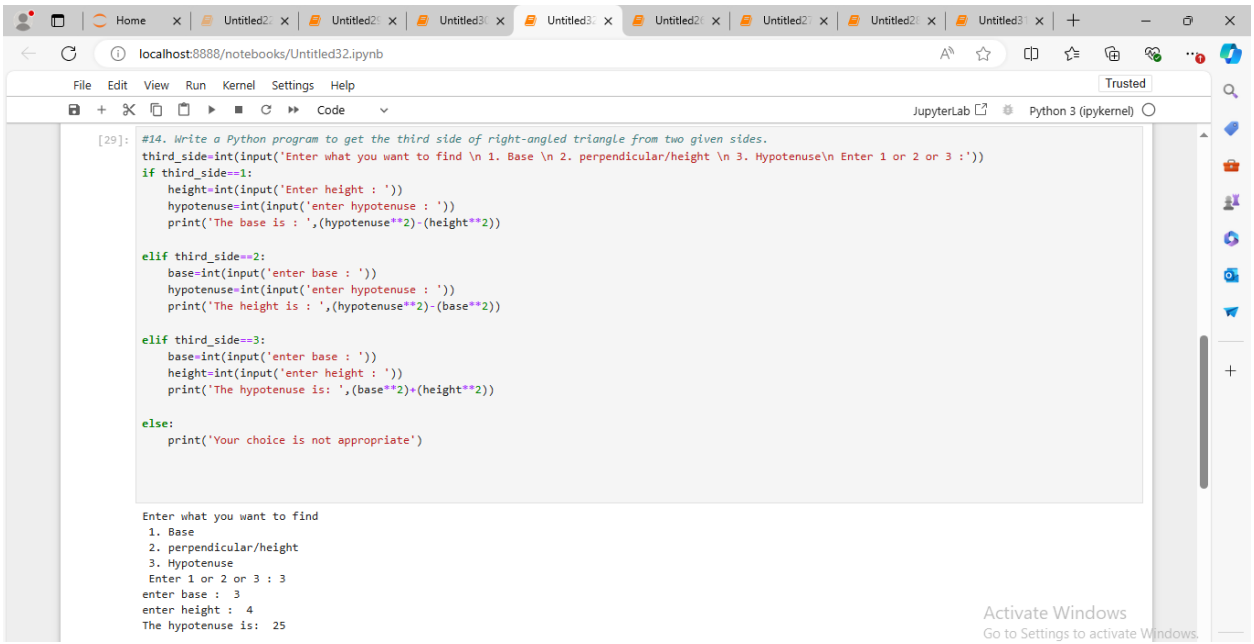
```
[38]: #13. Write a python program to check whether a given string is palindrome or not.

str=input('enter any string')
str=str.lower()
if str==str[::-1]:
    print('Yes The Given string is a palindrome')

else:
    print('No the given string is not a palindrome ')
```

```
enter any string Stuti
No the given string is not a palindrome
```

Q14.



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[29]: #14. Write a Python program to get the third side of right-angled triangle from two given sides.
third_side=int(input('Enter what you want to find \n 1. Base \n 2. perpendicular/height \n 3. Hypotenuse\n Enter 1 or 2 or 3 :'))
if third_side==1:
    height=int(input('Enter height : '))
    hypotenuse=int(input('enter hypotenuse : '))
    print('The base is : ',(hypotenuse**2)-(height**2))

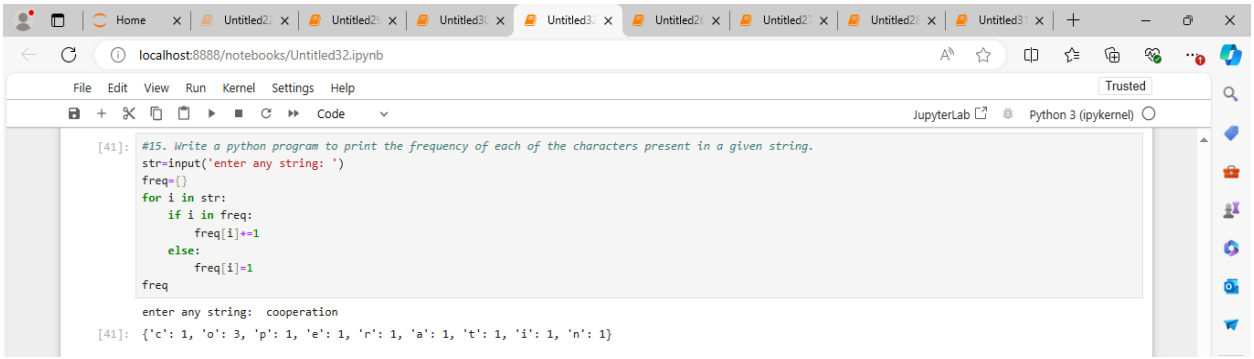
elif third_side==2:
    base=int(input('enter base : '))
    hypotenuse=int(input('enter hypotenuse : '))
    print('The height is : ',(hypotenuse**2)-(base**2))

elif third_side==3:
    base=int(input('enter base : '))
    height=int(input('enter height : '))
    print('The hypotenuse is: ',(base**2)+(height**2))

else:
    print('Your choice is not appropriate')
```

```
Enter what you want to find
 1. Base
 2. perpendicular/height
 3. Hypotenuse
 Enter 1 or 2 or 3 : 3
enter base :  3
enter height :  4
The hypotenuse is:  25
```


Q15.



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[41]: #15. Write a python program to print the frequency of each of the characters present in a given string.
str=input('enter any string: ')
freq={}
for i in str:
    if i in freq:
        freq[i]+=1
    else:
        freq[i]=1
freq
```

```
enter any string:  cooperation
[41]: {'c': 1, 'o': 3, 'p': 1, 'e': 1, 'r': 1, 'a': 1, 't': 1, 'i': 1, 'n': 1}
```