### Question-1:

```
** What is 7 to the power of 4?**

[1] print(pow(7,4))

2401
```

### Question-2:

```
** Split this string.**

s = "Ni there Sam!"

*into a list. *

$ s = "Ni there Sam!"

print (s.split())

['Hi', 'there', 'sam!']
```

### Question-3:

```
## Given the variables:##

planet = "Earth"
dismeter = 12742

#* Use .format() to print the following string: ##

The dismeter of Earth is 12742 kilometers.

[3] planet = "Earth"
dismeter = 12742
print ('The dismeter of () is () kilometers' .format(planet,dismeter))

The dismeter of Earth is 12742 kilometers
```

#### Question-4:

```
** Given this nested list, use indexing to grab the word 'hello' **

[4] 1st = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]

[5] 1st = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]

print(1st[3][1][2])

['hello']
```

### Question-5:

## Question-6:

```
** What is the main difference between a tuple and a list? **

[8] #tuple are immutable byut list are mutable #tuples are denoted in () and list are denoted as []
```

### Question-7:

```
** Create a function that grabs the email website domain from a string in the form: **

user@domain.com

So for example, passing "user@domain.com" would return: domain.com

[10] def domainGet(email):
    print("Your domain is: " + email.split('@')[-1])
    email = input("Please enter your email: >")

Please enter your email: >user@domain.com

[ ] domainGet('user@domain.com')

Your domain is: domain.com
```

### **Question-8:**

```
** Create a basic function that returns True if the word 'dog' is contained in the input string. Don't worry about edge cases like a punctuation being attached to the word dog, but do account for capitalization. **

[11] def findDog(st):
    if 'dog' in st.lower():
        print("True")
    else:
        print("False")

st = "Is there a dog here?"
findDog(st)

True

[12] findDog('Is there a dog here?')

True
```

### **Question-9:**

```
** Create a function that counts the number of times the word 'dog' occurs in a string. Again ignore edge cases. **

[13] value = 'This dog runs faster than the other dog dude!';

def countdogs(value):
    count = 0
    for word in value.lower().split():
        if word == 'dog' or word == 'dogs':
        count = count + 1
        print(count)

countdogs(value)

1
2
```

# Question-10:

## Question-11:

```
Create an employee list with basic salary values(at least 5 values for 5 employees) and using a for loop retreive each employee salary and calculate total salary expenditure.

employee=[400,500,550,600,250]
sum=0
print ("salaryof 1st person is",employee[0])
print ("salaryof 2nd person is",employee[1])
print ("salaryof 3nd person is",employee[2])
print ("salaryof 4th person is",employee[3])
print ("salaryof 5th person is",employee[4])
for x in employee:
    sum=sum+x
    print("The total salary is", sum)

C- salaryof 1st person is 400
salaryof 2nd person is 500
salaryof 3nd person is 500
salaryof 3nd person is 600
salaryof 4th person is 600
salaryof 5th person is 600
salaryof 5th person is 500
salaryof 5th person is 600
salaryof 5th person is 600
salaryof 5th person is 500
```

## Question-12: