In [ ]:

```python
x =10
while x < 15 :
    print(x)
    if x == 13:
        print("Inside Break")
        break
    x=x + 1
```

In [ ]:

```python
#continue
str1 = "India"
for i in str1:
    if i == 'd':
        continue
    print(i)
```

Write a program that prints the integers from 1 to 100. But for multiples of three print "Fizz" instead of the number, and for the multiples of five print "Buzz". For numbers which are multiples of both three and five print "FizzBuzz".

In [ ]:

```python
for i in range(1, 101):
    if i
```

1. ANIMAL CRACKERS: Write a function takes a two-word string and returns True if both words begin with same letter animal_crackers('Levelheaded Llama') --> True animal_crackers('Crazy Kangaroo') --> False

In [26]:

```python
class String_problems():

    def __init__(self, str1):
        self.str1 = str1

    def animal_crackers(self):
        both_words_list = self.str1.split()
        if not(len(both_words_list) == 2):
            print("Please provide  correct input.")
        else :
            if (both_words_list[0][0].lower() == both_words_list[1][0].lower()):
                return True
            else:
                return False
```

In [27]:

```python
problem_2 = String_problems("India Idone")
```

In [28]:

```python
problem_2.animal_crackers()
```

Out[28]:

```
True
```

In [39]:

```python
def square_nums(num1):
    return num1**2
```

```python
list1= [1,2,3,4,5,6]
```

In [40]:

```python
list(map(square_nums, list1))
```

Out[40]:

```
[1, 4, 9, 16, 25, 36]
```

In [41]:

```python
def even_nums(num1):
    return num1 % 2 == 0

list2 =  [1,2,3,4,5,6]
```

In [42]:

```python
list(filter(even_nums,list2))
```

Out[42]:

```
[2, 4, 6]
```

In [52]:

```python
def vowelsCheck(word):
    return (('a' in word) or
            ('e' in word) or
            ('i' in word) or
            ('o' in word) or
            ('u' in word))

list3 = ['apples', 'myth', 'chrome','nuts', 'rythm']
```

In [53]:

```python
list(filter(vowelsCheck, list3))
```

Out[53]:

```
['apples', 'chrome', 'nuts']
```

In [66]:

```python
def armstrong_num(num):
    str_num = str(num)
    sum = 0
    for i in str_num:
        sum = sum+int(i)**3
    if sum == num:
        return True
    else:
        return False

list4=[153, 371, 50, 407, 2090]
```

In [67]:

```python
list(filter(armstrong_num, list4))
```

Out[67]:

```
[153, 371, 407]
```

In [ ]: