Question 1

```
#@title Question 1

i = int(input())
if (i >= 30): # v1: i == 10, v2 >= 15
    if (i < 15):
        print ("1")
    if (i < 12):
        print ("2")
    else:
        print ("3")

#1 : input = 12 output= no output
#1 : input = 10 output= 1, 2
#28: input = 12 output= 1, 2
#045:input = 15 output= 3
#11: input = 10 output=1, 2
#12: input = 20 output= 3
#30: input = 12 output=1, 3
#17: input = 20 output=1, 2
#021:input = 0 output=3
```

Question 2

```
#@title Question 2
i = int(input())
if (i < 10):
    print ("1")
if (i < 15):
    print ("2")
elif (i < 20):
    print ("3")
else:
    print ("4")
#05: input:5 , output: 1, 2
#06: input:60, output: 4
#08: input:-8, output: 1, 2
#20: input:200, output: 4

#4 : input:15 , output: 3, 4
#7 : input: 20, output: 4
#26: input: 5, output: 1, 2, 3
#021: input: 100, output: 4
```

Question 3

```
#@title Question 3
l = ["I", "like", "viva"]
for i in l:
    print(i)

#38: I \n Like \n viva
```

```
#@title Question 4
```

```
#@title Question 4
l = ["I like viva"]
for i in l:
    print(i)

#40: I \n like \n viva
#30: I \n like \n viva
```

Question 4

```
#@title Question 5
l = "I like viva"
for i in l:
    print(i)
```

Question 5

```
#@title Question 6
l = {
    1 : "This",
    2 : "is",
    3 : 'a',
    4 : "great news"
}

for i in l:
    print(i)

#46: puro dictionary
#09: puro dictionary
```

Question 6

```
#@title Question 7
for letter in 'python':
    if letter == 'y' or letter == 'o':
        print("1")
    print(letter)
    var = 10

#7: 1
#27: -------
#32: 1 1 5
```

Question 7

```
#@title Question 8
for letter in 'geeksforgeeks':
    pass
print(letter)

#24: nothing
#38: -----
#12: letter
'''
int i=0
for (i=0; i<5; i++){

}
print(i)
'''
```

Question 8

```
    s
```

```
#@title Question 9
a = 0
for i in range(1, 3):
    a = a + i**2
print(a)

#25: 8
```
Question 9

```
#@title Question 10
a = 0
for i in range(1, 3):
    a = i**2
print(a)

#33: 1**2, 2**2
#46: 4
#21: 8
```
Question 10

```
#@title Question 11
count = 0
while (count < 5):
  count += 1
  print(count+1)

#43: 11
#11: (0, 1 , 2 , 3 , 4)
```
Question 11

```
#@title Question 12
i = 0
a = 'python'

while i < len(a):
  if a[i] == 't' or a[i] == 's':
    i += 1
  print(a[i])
  i += 1

#4 : 1 \n 2
#17: error
```
Question 12

```
#@title Question 13
List = [ [ '1', '2' ] , [ ['3'], ['4'] ] ]
print() #

#33: List[2] -> '3'
```
Question 13

```
#@title Question 14
List = [1, 2, ['Python', 4, 'Java'], 6, 'C']
```
Question 14

```
print()
#43: List[2][0] -> Python
#44: List[4] ->'C'
#14: List[2][1]-> 4
```

```
#@title Question 15
l = [1, 2, 3, 4]
l[1:3] = [10, 20, 30, 40]
print(l)

#045: [20, 30, 40]
#26 : [1, 2, 3, 4]
```
Question 15

```
#@title Question 16
l = [1, 2, 3, 4, 5, 6, 7]
l[1:3] = []
print(l)
#47: [2, 3]
#44: [2, 3, 4]
#40: [1, 4]
#32: [1, 4, 5, 6, 7]
```
Question 16

```
#@title Question 17
List = ['I',' ', 'L','I','K','E',' ', 'P','Y','T','H','O','N']
Sliced_List = List[-6:-1]
print(Sliced_List)

#45: 'P','Y','T','H','O'
#09: 'P','Y','T','H','O'
```
Question 17

```
#@title Question 18
List = ['I',' ', 'L','I','K','E',' ', 'P','Y','T','H','O','N']

Sliced_List = List[::-1]
print(Sliced_List)

#45: reverse full list without 'I'
#18: reverse full list
```
Question 18

```
#@title Question 19
List = ['I',' ', 'L','I','K','E',' ', 'P','Y','T','H','O','N']
Sliced_List = List[ 5: :-1]
print(Sliced_List)

#14: 'E',' ', 'P','Y','T','H','O','N' reverse
```
Question 19

```
#@title Question 20
List = ['I',' ', 'L','I','K','E',' ', 'P','Y','T','H','O','N']
Sliced_List = List[ 5: 2 :-1]
print(Sliced_List)
```
Question 20

```
#28: -------
#25: 'I','K','E' reverse
```

Question 21

```
#@title Question 21
List = ['I',' ', 'L','I','K','E',' ', 'P','Y','T','H','O','N']
Sliced_List = List[ len(List): 0 :-1]
print(Sliced_List)


#21: reverse the whole list
```

Question 22

```
#@title Question 22
List = ['I',' ', 'L','I','K','E',' ', 'P','Y','T','H','O','N']
Sliced_List = List[ 100: 0 :-1]
print(Sliced_List)


#18: Reverse full list without 'I'
```

Question 23

```
#@title Question 23
List = ['I',' ', 'L','I','K','E',' ', 'P','Y','T','H','O','N']
Sliced_List = List[ 5: 7 :-1]
print(Sliced_List)


#47: 'E', 'K'
```

Question 24

```
#@title Question 24
List = ['I',' ', 'L','I','K','E',' ', 'P','Y','T','H','O','N']
Sliced_List = List[ 0: 0 :0]
print(Sliced_List)


#24: outputs whole list
#27: error
```

Question 25

```
#@title Question 25
List = ['I',' ', 'L','I','K','E',' ', 'P','Y','T','H','O','N']
Sliced_List = List[ :: ]
print(Sliced_List)
```