שם: <u>עדן אדמוני</u>   שם: <u>תמיר ישעיהו</u>
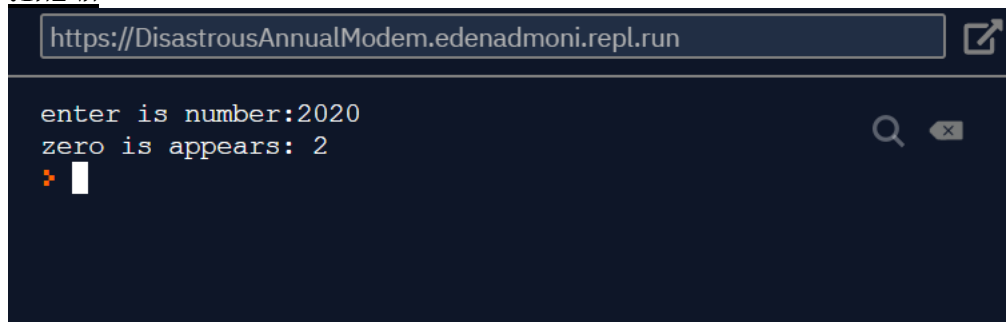
שאלה 1

```python
count=0
num=int(input("enter is number:"))
while(num>0):
  if(num%10==0):
    count=count+1
  num=int(num/10)
print("zero is appears:",count)
```
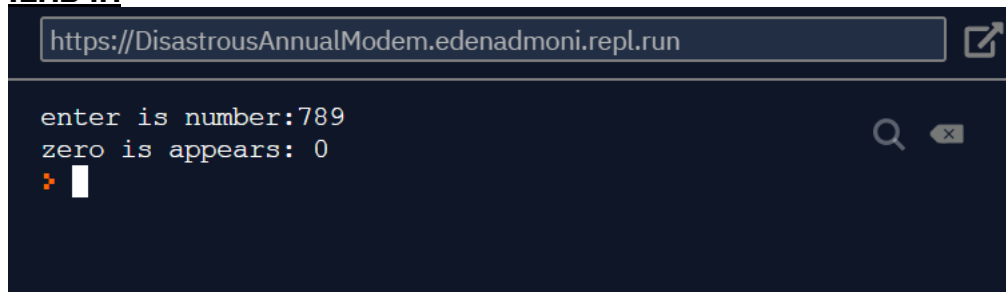
<u>**הרצה1:**</u>

```
https://DisastrousAnnualModem.edenadmoni.repl.run

enter is number:2020
zero is appears: 2
>
```
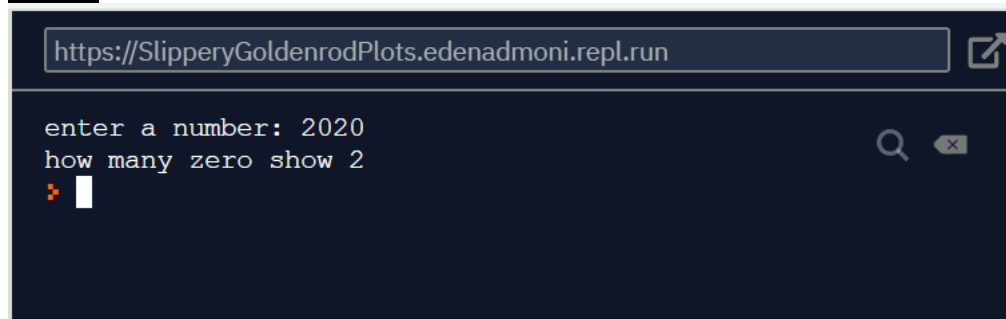
<u>**הרצה2:**</u>

```
https://DisastrousAnnualModem.edenadmoni.repl.run

enter is number:789
zero is appears: 0
>
```

שאלה 2

```python
number = input('enter a number: ')
print('how many zero show', number.count('0'))
```

<u>**הרצה1:**</u>

```
https://SlipperyGoldenrodPlots.edenadmoni.repl.run

enter a number: 2020
how many zero show 2
>
```

```
https://SlipperyGoldenrodPlots.edenadmoni.repl.run

enter a number: 789
how many zero show 0
>
```

שאלה 3

```python
list_python = ['I','' ,'L','o','v','e','' ,
'p','y','t','h','o','n']
print('the len of the list_pyton is', len(list_python))
print('how many a showed', list_python.count('a'))
list_python_sentece = ''.join(list_python)
print('xa showed in the list?', 'xa' in list_python_sentece)
print('show the odd index of the list', list_python[1::2])
```

הרצה 1:


```
https://SlipperyGoldenrodPlots.edenadmoni.repl.run

the len of the list_pyton is 13
how many a showed 0
xa showed in the list? False
show the odd index of the list ['', 'o', 'e', 'p', 't', 'o'
]
>
```

```python
list_exam = ['G','o' ,'o','d','','L','u','c' ,
'k','','i','n','','t','h', 'e', '', 'e', 'x', 'a', 'm']
print('the len of the list_exam', len(list_exam))
print('how many a showed', list_exam.count('a'))
list_exam_sentece = ''.join(list_exam)
print('xa showed in the list?','xa' in list_exam_sentece)
print('show the odd index of the list', list_exam[1::2])
```

הרצה 2:

```
the len of the list_exam 21
how many a showed 1
xa showed in the list? True
show the odd index of the list ['o', 'd', 'L', 'c', '', 'n'
, 't', 'e', 'e', 'a']
>
```

שאלה 4

```python
list_numbers = []
for i in range(1, 101, 1):
  if(i%6 == 0):
    list_numbers.append(i)
  elif(i%15 == 0):
    list_numbers.append(i)
  elif(i%35 == 0):
    list_numbers.append(i)
print('the list_numbers divide in 6, 15 and 35', list_numbers)
print('the amount of numbers that divide in 6, 15 and 35 is:
', len(list_numbers))
```

הרצה:

```
the list_numbers divide in 6, 15 and 35 [6, 12, 15, 18, 24,
 30, 35, 36, 42, 45, 48, 54, 60, 66, 70, 72, 75, 78, 84, 90
, 96]
the amount of numbers that divide in 6, 15 and 35 is:  21
>
```

שאלה 5

```python
number = int(input('enter a first number: '))
number_two = int(input('enter second number: '))
if(number<0 or number_two<0):
  print('number neagtive')
else:
  for i in range(1,number+1, 1):
    for y in range(1, number_two+1, 1):
      if(i*y%3 == 0):
        print(i*y,"\t" ,end="")
      else:
        print('*',end='\t')
    print()
```

```
https://DisastrousAnnualModem.edenadmoni.repl.run
```

```
enter a first number: 6
enter second number: 6
*    *    3    *    *    6
*    *    6    *    *    12
3    6    9    12   15   18
*    *    12   *    *    24
*    *    15   *    *    30
6    12   18   24   30   36
>
```

```python
count = 0
list_same_plindrum =[]
for i in range(100, 1000,1):
  if(str(i)[0:3:1]==str(i)[-1:-4:-1]):
    count = count+1
    list_same_plindrum.append(i)
print(list_same_plindrum)
print("the amount of numbers that plindrum is: ",count)
```
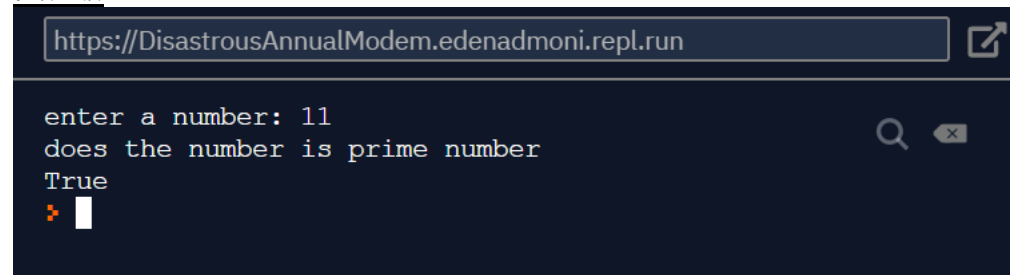**הרצה:**

```
https://DisastrousAnnualModem.edenadmoni.repl.run
```

```
[101, 111, 121, 131, 141, 151, 161, 171, 181, 191, 202, 212
, 222, 232, 242, 252, 262, 272, 282, 292, 303, 313, 323, 33
3, 343, 353, 363, 373, 383, 393, 404, 414, 424, 434, 444, 4
54, 464, 474, 484, 494, 505, 515, 525, 535, 545, 555, 565,
575, 585, 595, 606, 616, 626, 636, 646, 656, 666, 676, 686,
 696, 707, 717, 727, 737, 747, 757, 767, 777, 787, 797, 808
, 818, 828, 838, 848, 858, 868, 878, 888, 898, 909, 919, 92
9, 939, 949, 959, 969, 979, 989, 999]
the amount of numbers that plindrum is:  90
>
```
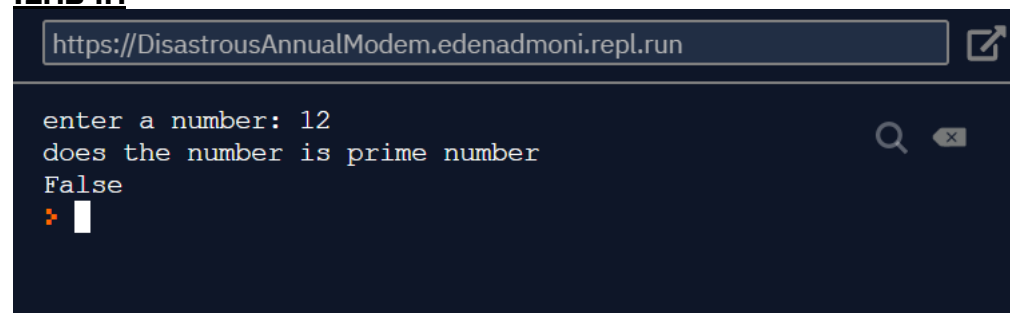
```python
def isprime(num):
  count = 0
  for i in range(1, num+1, 1):
    if(num%i == 0):
      count = count+1
  return(count == 2)
number = int(input('enter a number: '))
print('does the number is prime number')
print(isprime(number))
```

הרצה1:

```
https://DisastrousAnnualModem.edenadmoni.repl.run

enter a number: 11
does the number is prime number
True
▶ █
```

הרצה2:

```
https://DisastrousAnnualModem.edenadmoni.repl.run

enter a number: 12
does the number is prime number
False
▶ █
```

שאלה 8

```python
def max_min(list_maxmin, op):
  if (op == 'max'):
    return max(list_maxmin)
  elif(op == 'min'):
    return min(list_maxmin)
  elif(op == 'maxmin'):
    return min(list_maxmin), max(list_maxmin)
list_numbers = []
for i in range(1, 6, 1):
  number =  int(input('enter a number: '))
  list_numbers.append(number)
print('the largest number is: ' ,max_min(list_numbers, 'max'))
print('the smallest number is: ',max_min(list_numbers, 'min'))
print('the largest number is and the smallest numbers are:'
,list(max_min(list_numbers, 'maxmin')))
```

```
https://HandsomeInfamousBackups.edenadmoni.repl.run

enter a number: -1
enter a number: 8
enter a number: 0
enter a number: 15
enter a number: 4
the largest number is:  15
the smallest number is:  -1
the largest number is and the smallest numbers are: [-1, 15
]
>
```

```
https://HandsomeInfamousBackups.edenadmoni.repl.run

enter a number: -8
enter a number: -1
enter a number: -12
enter a number: -4
enter a number: -6
the largest number is:  -1
the smallest number is:  -12
the largest number is and the smallest numbers are: [-12, -
1]
>
```