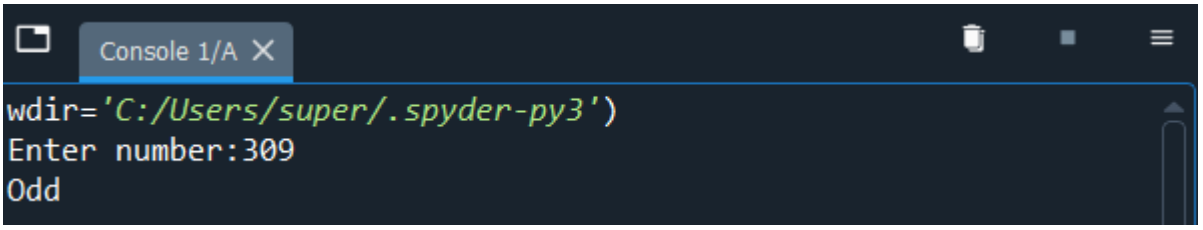
Experiment-2

Question 1:

```
x=int(input("Enter number:"))
if x%2==0:
    print("Even")
else:
    print("Odd")
```

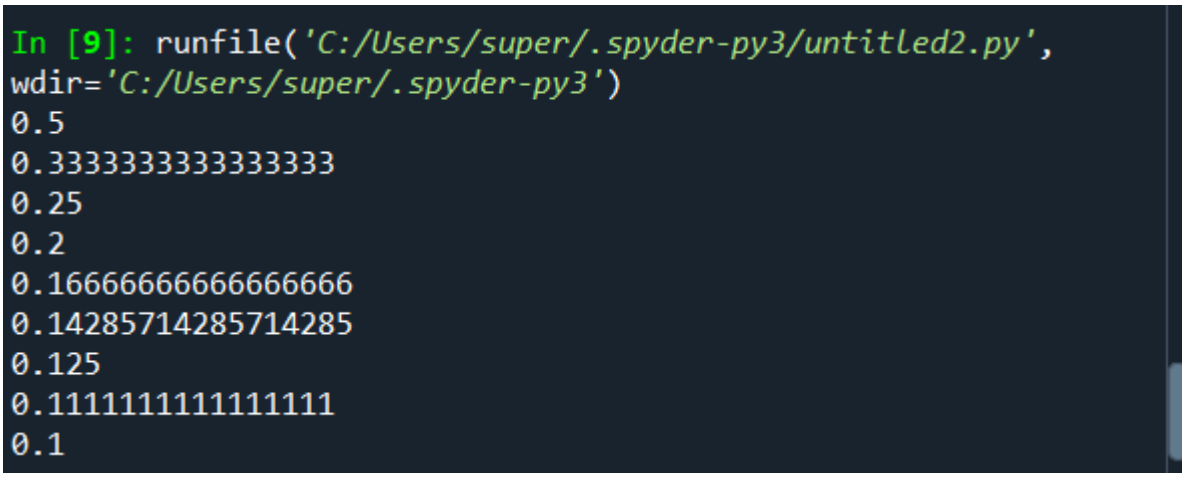
Output:



Question 2:

```
for i in range(2,11):
    print(1/i)
```

Output:



Question 3:

```
x=int(input("Enter number:"))
for i in range(x,-1,-1):
    print(i)
```

Output:

```
In [10]: runfile('C:/Users/super/.spyder-py3/untitled3.py',
wdir='C:/Users/super/.spyder-py3')
Enter number:9
9
8
7
6
5
4
3
2
1
0
```

Question 4:

```
from datetime import datetime
import pytz

ist = pytz.timezone('Asia/Kolkata')

current_time = datetime.now(ist)

f = current_time.strftime("%a %B %d %H:%M:%S %Z %Y")

print(f)
```

Output:

```
In [11]: runfile('C:/Users/super/.spyder-py3/untitled4.py',
wdir='C:/Users/super/.spyder-py3')
Mon August 12 16:34:34 IST 2024
```

Question 5:

```
l=eval(input("Enter numbers:"))
print(max(l))
```

Output:

```
In [13]: runfile('C:/Users/super/.spyder-py3/untitled5.py',
wdir='C:/Users/super/.spyder-py3')
Enter numbers:4,6,7
7
```

Question 6:

```
a=input("Is your temp C or F: ").lower()
temp=int(input("Enter temp: "))

if a=='c':
    print(temp*(9/5)+32,"°F")
else:
    print((temp-32)*(5/9),"°C")
```

Output:

```
In [15]: runfile('C:/Users/super/.spyder-py3/untitled6.py',
wdir='C:/Users/super/.spyder-py3')
Is your temp C or F: c
Enter temp: 40
104.0 °F
```

Question 7:

```
l=[]
for num in range(20):
    if num > 1:
        for i in range(2, (num//2)+1):
            if (num % i) == 0:
                break
        else:
            l.append(num)
    else:
        continue
print(l)
```

Output:

```
In [16]: runfile('C:/Users/super/.spyder-py3/untitled7.py',
wdir='C:/Users/super/.spyder-py3')
[2, 3, 5, 7, 11, 13, 17, 19]
```

Question 8:

```
a,b,c=[int(x) for x in input("Enter 3 sides:").split()]
if a*a+b*b==c*c or a*a+c*c==b*b or b*b+c*c==a*a:
    print("Right angle triangle.")
else:
    print("Not right angled.")
```

Output:

```
In [21]: runfile('C:/Users/super/.spyder-py3/untitled8.py',
wdir='C:/Users/super/.spyder-py3')
Enter 3 sides:12 5 13
Right angle triangle.
```

Question 9:

```
a=float(input("Enter marks of subject 1: "))
b=float(input("Enter marks of subject 2: "))
c=float(input("Enter marks of subject 3: "))
l=[a,b,c]
l.sort()
print((l[0]+l[1])/2)
```

Output:

```
In [1]: runfile('C:/Users/super/.spyder-py3/untitled9.py',
wdir='C:/Users/super/.spyder-py3')
Enter marks of subject 1: 40
Enter marks of subject 2: 12
Enter marks of subject 3: 33
22.5
```

Question 10:

```
x=str(input("Enter number:"))
d={}
for i in x:
    d[i]=x.count(i)

if x==x[::-1]:
    print("Palindrome")
    for k in d:
        print(k,"appears",d[k],"times")
else:
    print("Not a palindrome.")
    for k in d:
        print(k,"appears",d[k],"times")
```

Output:

```
In [1]: runfile('C:/Users/super/.spyder-py3/untitled10.py',
wdir='C:/Users/super/.spyder-py3')
Enter number:1234321
Palindrome
1 appears 2 times
2 appears 2 times
3 appears 2 times
4 appears 1 times
```

Question 11:

```
sen=str(input("Enter sentence: "))
l=sen.split()
up=0
low=0
d=0
for i in l:
    if i.isnumeric():
        d+=1
for i in sen:
    if i.isupper():
        up+=1
    elif i.islower():
        low+=1
print("This sentence has",len(sen.split()),"words.")
print("This sentence has",d,"digits.")
```

```
print(up," uppercase letters.")
print(low," lowercase letters.")
```

Output:

```
In [1]: runfile('C:/Users/super/.spyder-py3/untitled11.py',
wdir='C:/Users/super/.spyder-py3')
Enter sentence: Hi how are you i have 17 apples
This sentence has 8 words.
This sentence has 1 digits.
1  uppercase letters.
21  lowercase letters.
```