

1.

```
def numVowels(s):  
    l=['a','e','i','o','u']  
    count=0  
    n=len(s)  
    for i in s.lower():  
        if i in l:  
            count+=1  
    count1=n-count  
    print((count,count1))
```

```
s=input("Enter String:")  
numVowels(s)
```

2.

```
def count(x):  
    file = open(x)  
    lines = 0  
    characters = 0  
    words = 0  
    for l in file:  
        lines = lines + 1  
        for c in l:  
            if c == " "  
                words = words + 1  
            else:  
                characters = characters + 1  
    words = words + lines  
    print("Lines : " + str(lines))  
    print("Words : " + str(words))  
    print("Characters : " + str(characters))  
    file.close()
```

```
count("example.txt")
```

3.

```
def geometric(arr):  
    ref=arr[1]/arr[0]  
    a=0  
    i=2
```

```

while i<len(arr)-1:
    if arr[i+1]/arr[i] != ref:
        a=1
        break
    else:
        i+=1
print(arr)
if a==0:
    print("Yes,it is a GP")
else:
    print("No,not a GP")

```

```

n=int(input("enter list size"))
l=[]
for i in range(n):
    l.append(int(input("Enter element")))
geometric(l)

```

4.

```

def generate_n_chars(n,ch):
    print(n*ch)
generate_n_chars(n=5,ch='c')

```

5.

```

def initials(s):
    news=s[0]
    for i in range(1,len(s)):
        if s[i].isspace():
            news+=s[i+1]
    print(news.upper())
s=input("Enter the name")
initials(s)

```

6.

```

def vowelCount(s):
    s.lower()
    ca=0
    ce=0
    ci=0
    co=0
    cu=0

```

```

for i in s:
    if i=='a':
        ca+=1
    elif i=="e":
        ce+=1
    elif i=="i":
        ci+=1
    elif i=="o":
        co+=1
    elif i=="u":
        cu+=1
    else:
        continue
print("a,e,i,o,u appeared",ca,ce,co,cu,"and",ci,"times respectively.")
s=input("Enter the string")
vowelCount(s)

```

7.

```

lines = []
while True:
    l = input()
    if l != "quit":
        lines.append(l)
    else:
        break
print()
x = len(lines)
for i in range(x-1, -1, -1):
    print(lines[i])

```

8.

```

class NegativeRadius(Exception):
    pass
try:
    r=float(input("Enter the radius"))
    if r<0:
        raise NegativeRadius
    else:
        area=3.14*(r**2)
        print(area," is the area of the circle")

```

```
except NegativeRadius:
    print("Radius cannot be negative!")
```

9.

```
def exclamation(s):
    s.lower()
    news=""
    l=['a','e','i','o','u']
    for i in s:
        if i in l:
            news+=4*i
        else:
            news+=i
    print(news)
s=input("Enter the string")
exclamation(s)
```

10.

```
def is_abecedarian(s):
    s.lower()
    a=0
    for i in range(len(s)-1):
        if ord(s[i])>ord(s[i+1]):
            a=1
    if a==1:
        print("False")
    else:
        print("True")
is_abecedarian("abcda")
```