In [1]:
```
a = "Hello, World!"
print(a.upper())
```

```
HELLO, WORLD!
```

In [2]:
```
a = "Hello, World!"
print(a.lower())
```

```
hello, world!
```

In [3]:
```
a = " Hello, World! "
print(a.strip())
```

```
Hello, World!
```

In [4]:
```
a = "Hello, World!"
print(a.replace("H", "J"))
```

```
Jello, World!
```

In [5]:
```
a = "Hello, World!"
print(a.split(","))
```

```
['Hello', ' World!']
```

In [6]:
```
a = "Hello"
b = "World"
c = a + b
print(c)
```

```
HelloWorld
```

In [7]:
```
a = "Hello"
b = "World"
c = a +" "+ b
print(c)
```

```
Hello World
```

In [8]:
```
age = 36
txt = f"My name is John, I am {age}"
print(txt)
```

```
My name is John, I am 36
```

In [9]:
```
price = 70
txt = f"The price is {price} dollars"
print(txt)
```

```
The price is 70 dollars
```

In [10]:
```
price = 59
txt = f"The price is {price:.2f} dollars"
print(txt)
```

```
The price is 59.00 dollars
```

In [11]:
```
txt = f"The price is {20 * 59} dollars"
print(txt)
```

```
The price is 1180 dollars
```

In [12]:
```
string = "hello world"
counter = {}
for char in string:
    if char in counter:
        counter[char] += 1
    else:
        counter[char] = 1
print(counter)
```

```
{'h': 1, 'e': 1, 'l': 3, 'o': 2, ' ': 1, 'w': 1, 'r': 1, 'd': 1}
```

In [1]:
```
str= input("Enter string")
l= list(str)
l.count("H")
```

```
Enter stringhello
```

Out[1]:
```
0
```

In [2]:
```
content= input("Enter your string: ")
content= content.lower()
for i in range(97,123):
    count=0
    j=chr(i)
    for l in content:
        if j==l:
            count=count+1
    if count>0:
        print(j,":",count)
```

```
Enter your string: chitkara university
a : 2
c : 1
e : 1
h : 1
i : 3
k : 1
n : 1
r : 2
s : 1
t : 2
u : 1
v : 1
y : 1
```

In [6]:
```
c=input("enter your string:")
print(c[::-1], end="")
```

```
enter your string:hi python
nohtyp ih
```

In [8]:
```
def removeDuplicate(str):
    s = set(str)
    s = "".join(s)
    print("Without Order:", s)

    t = ""
    for i in str:
        if i in t:
            pass
        else:
            t = t + i

    print("With Order:", t)

str = "aabbccddqukk"
removeDuplicate(str)
```

```
Without Order: qubcdak
With Order: abcdquk
```

In [4]:
```
def cal_prod(a,b):
    print(a*b)
    return a*b

cal_prod(3,4)
```

```
12
```

In [5]:
```
def cal_prod(a,b=2):# default values will be declared from the end
    print(a*b)
    return a*b

cal_prod(3)
```

```
6
```

Out[5]:
```
6
```

In [7]:
```
a=3
b=5
sum=a+b
print(sum)

a=3
b=7
sum=a+b
print(sum)
```

```
8
10
```

In [9]:
```
def calc_sum(a,b):
    sum=a+b
    print(sum)
    return sum

calc_sum(15,7)
calc_sum(4,8)
```

```
22
12
```

Out[9]:
```
12
```

In [11]:
```
def hi():
    print("Hello")

output=hi()
print (output)
```

```
Hello
None
```

In [13]:
```
def converter(usd_value):
    inr_value=usd_value*85
    print(usd_value, "USD=", inr_value, "INR")

converter(2)
```

```
2 USD= 170 INR
```

In [18]:
```
i=1
while(i<=10):
    print(i)
    i+=1
```

```
1
2
3
4
5
6
7
8
9
10
```

In [19]:
```
i=10
while(i>=1):
    print(i)
    i-=1
```

```
10
9
8
7
6
5
4
3
2
1
```

In [20]:
```
n=int(input("enter number : "))
i=1
while i<=10:
    print(n*i)
    i+=1
```

```
enter number : 3
3
6
9
12
15
18
21
24
27
30
```

In [23]:
```
str= "chitkarauniversity"

for char in str:
    if(char=="u"):
        print("u found")
        break
    print(char)

print("END")
```

```
c
h
i
t
k
a
r
a
u found
END
```

In [25]:
```
x = 3
y = 10
if x > y:
    print("x is greater than y.")
else:
    print("x is not greater than y.")
```

```
x is not greater than y.
```

In [26]:
```
x = 0
if x > 0:
    print('Positive number')
elif x < 0:
    print('Negative number')
else:
    print('Zero')
```

```
Zero
```

In [35]:
```
score = int(input())
if score >= 60:
    if score >= 90:
        print("Grade A")
    elif score >= 80:
        print("Grade B+")
    elif score >= 70:
        print("Grade B")
    elif score >= 60:
        print("Grade C")
else:
     print("Failed")
```

```
62
Grade C
```

In [ ]:

In [ ]: