Question 1

In [1]:
```
str=input("Enter a sentence")
str.capitalize()
```

Out[1]:
```
'This is python program'
```

Quetion 2

In [3]:
```
str1=input("Enter a string")
str1.lower()
```

Out[3]:
```
'python'
```

Question 3

In [5]:
```
str2=input("Enter a string")
str2.upper()
```

Out[5]:
```
'CHAITALI'
```

Question 4

In [6]:
```
sentence=input("Enter a sentence")
sentence.title()
```

Out[6]:
```
'This Is A Python Program'
```

Question 5

In [8]:
```
string="     I am python"
string.lstrip()
```

Out[8]:
```
'I am python'
```

Question 6

In [9]:
```
string1="     chaitali          "
string1.rstrip()
```

Out[9]:
```
'     chaitali'
```

Question 7

In [11]:
```
s="         Data      science          "
s.strip()
```

Out[11]:
```
'Data      science'
```

Question 8

In [12]:
```
sen="This  is a python program"
sen.replace("python","Java")
```

Out[12]:
```
'This  is a Java program'
```

Question 9

In [15]:
```
ss="AZXCVARTYJBNMZAKLAaasdfgha"
ss.count("Y")
```

Out[15]:
```
1
```

Question 10

In [13]:
```
str="Morning"
substr="i"
if str.index(substr):
    print(str.index(substr))
else:
    print("Substring not found")
```

4

Question 11

In [1]:
```
string=" Hello I am learning pyhton"
substring="Hello"
res=string.find(substring)
print(res)
```

```
1
```

Question 12

In [14]:
```
sentence=input("Enter a sentence")
word=sentence.split()
print(word)
```

```
['Hello,', 'Everyone,', 'I,', 'am', 'a,', 'python,', 'student']
```

Question 13

In [16]:
```
file_name="data.py"
if file_name.endswith(".txt"):
    print("This is a text file.")
else:
    print( "This is not necessarily a text file.")
```

```
This is not necessarily a text file.
```

Question 14

In [44]:
```
str = input("Enter a line of text: ")

if str.startswith("Subject: "):
    print("This line is likely an email subject.")
else:
    print("This line does not appear to be an email subject.")
```

```
This line is likely an email subject.
```

Question 15

In [30]:
```
code1=input("Enter a string")
if code1.isalnum():
    print("Alphanumeric string")
else:
    print("Not a alphanumeric String")
```

```
Alphanumeric string
```

Question 16

In [28]:
```
string=input("Enter a string")
if string.isalpha():
    print("Alphabetic String")
else:
    print("Not a alphabetic string")
```

```
Alphabetic String
```

Question 17

In [32]:
```
str=input("Enter a string")
if str.isdecimal():
    print("String is a decimal")
else:
    print("Is not a decimal")
```

```
Is not a decimal
```

Question 18

In [34]:
```
string=input("Enter a string")
if string.isdigit():
    print("Digit String")
else:
    print("Not a digit string")
```

```
Not a digit string
```

Question 19

In [36]:
```
str=input("enter a string")
if str.isnumeric():
    print("Numeric string")
else:
    print("Not a numeric string")
```

```
Numeric string
```

Question 20

In [39]:
```
str1=input("Enter a string")
if str1.islower():
    print("Lowercase string")
else:
    print("Not a lowecase string")
```

```
Not a lowecase string
```

Question 21

In [46]:
```
ss=input("Enter a string")
if ss.isupper():
    print("All upeercase string")
else:
    print("Not a uppercase string")
```

```
All upeercase string
```

Question 22

In [47]:
```
s=input("Enter a string")
if s.istitle():
    print("Title case string")
else:
    print("Not a title case string")
```

```
Title case string
```

Question 23

In [51]:
```
a=input("Enter a string")
if a.strip():
    print("Whitespace string")
else:
    print("Not a whitespace string")
```

```
Whitespace string
```

Question 24

In [55]:
```
t="0"
desired_width=input("Enter a width")
print(t.zfill(0))
```

```
0
```

Question 25

In [56]:
```
string="Python"
print(string.center(10,"*"))
```

```
**Python**
```

In [ ]:
```

```