

```
Even or odd Exe(2).py - C:/Users/Lenovo/OneDrive/Documents/Even or odd Exe(2).py
File Edit Format Run Options Window Help
num=int(input("enter a number: "))
if num%2==0:
    print("the given number is even ")
else:
    print("the given number is odd")

IDLE Shell 3.10.6
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>>
===== RESTART: C:/Users/Lenovo/OneDrive/Documents/Even or odd Exe(2).py =====
enter a number: 5
the given number is odd
>>>
===== RESTART: C:/Users/Lenovo/OneDrive/Documents/Even or odd Exe(2).py =====
enter a number: 4
the given number is even
>>>
===== RESTART: C:/Users/Lenovo/OneDrive/Documents/Even or odd Exe(2).py =====
enter a number: 16
the given number is even
>>>
===== RESTART: C:/Users/Lenovo/OneDrive/Documents/Even or odd Exe(2).py =====
enter a number: 20
the given number is even
>>>
===== RESTART: C:/Users/Lenovo/OneDrive/Documents/Even or odd Exe(2).py =====
enter a number: 105
the given number is odd
>>>
```

```
Bakery Sella Exe(5).PY - C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Bakery Sella Exe(5).PY
File Edit Format Run Options Window Help
new_count=int(input("Enter the Number of new loaves purchased : "))
old_count=int(input("Enter the Number of old loaves purchased : "))
rate_old=(185-(0.6*185))*old_count
rate_new=185*new_count
print("Regular Price : Rs. 185")
print("Old loaves Amount : Rs. ",rate_old)
print("New loaves Amount : Rs. ",rate_new)
print("Total Amount : Rs. ",rate_old+rate_new)

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>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Bakery Sella Exe(5).PY
Enter the Number of new loaves purchased : 4
Enter the Number of old loaves purchased : 6
Regular Price : Rs. 185
Old loaves Amount : Rs. 444.0
New loaves Amount : Rs. 740
Total Amount : Rs. 1184.0
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Bakery Sella Exe(5).PY
Enter the Number of new loaves purchased : -1
Enter the Number of old loaves purchased : 5
Regular Price : Rs. 185
Old loaves Amount : Rs. 370.0
New loaves Amount : Rs. -185
Total Amount : Rs. 185.0
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Bakery Sella Exe(5).PY
Enter the Number of new loaves purchased : 0
Enter the Number of old loaves purchased : 6
Regular Price : Rs. 185
Old loaves Amount : Rs. 444.0
New loaves Amount : Rs. 0
Total Amount : Rs. 444.0
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Bakery Sella Exe(5).PY
Enter the Number of new loaves purchased : 7
Enter the Number of old loaves purchased : 8
Regular Price : Rs. 185
Old loaves Amount : Rs. 592.0
New loaves Amount : Rs. 1295
Total Amount : Rs. 1887.0
>>>
```

```
Factorial of a number Exe(3).py - C:/Users/Lenovo/OneDrive/Documents/Factorial of a number Exe(3).py
File Edit Format Run Options Window Help
num=int(input("Enter a number:"))
factorial=1
if num<0:
    print("Invalid number")
elif num==0:
    print("Factorial of a number")
else:
    for i in range(1,num+1):
        factorial=factorial*i
    print("The factorial of",num,"is",factorial)
```

```
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>>>
== RESTART: C:/Users/Lenovo/OneDrive/Documents/Factorial of a number Exe(3).py ==
Enter a number:5
The factorial of 5 is 120
>>>
== RESTART: C:/Users/Lenovo/OneDrive/Documents/Factorial of a number Exe(3).py ==
Enter a number:4
The factorial of 4 is 24
>>>
== RESTART: C:/Users/Lenovo/OneDrive/Documents/Factorial of a number Exe(3).py ==
Enter a number:14
The factorial of 14 is 87178291200
>>>
== RESTART: C:/Users/Lenovo/OneDrive/Documents/Factorial of a number Exe(3).py ==
Enter a number:9
The factorial of 9 is 362880
>>>
== RESTART: C:/Users/Lenovo/OneDrive/Documents/Factorial of a number Exe(3).py ==
Enter a number:3
The factorial of 3 is 6
>>>
```

Activate Windows  
Go to Settings to activate Windows.

Ln: 24 Col: 0

```
Happy.PY - C:/Users/Lenovo/OneDrive/Documents/Happy.PY (3.10.6)
File Edit Format Run Options Window Help
def is_Happy_num(n):
    past = set()
    while n != 1:
        n = sum(int(i)**2 for i in str(n))
        if n in past:
            return False
        past.add(n)
    return True
a=int(input("Enter a number:"))
if (a>0):
    print(is_Happy_num(a))
else:
    print("Invalid")
```

```
IDLE Shell 3.10.6
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>>>
===== RESTART: C:\Users\Lenovo\OneDrive\Documents\Happy.PY =====
Enter a number:19
True
>>>
===== RESTART: C:\Users\Lenovo\OneDrive\Documents\Happy.PY =====
Enter a number:2
False
>>>
===== RESTART: C:\Users\Lenovo\OneDrive\Documents\Happy.PY =====
Enter a number:-1
Invalid
>>>
===== RESTART: C:\Users\Lenovo\OneDrive\Documents\Happy.PY =====
Enter a number:0
Invalid
>>>
===== RESTART: C:\Users\Lenovo\OneDrive\Documents\Happy.PY =====
Enter a number:5
False
>>>
```

Activate Windows  
Go to Settings to activate Windows.

Ln: 23 Col: 0

```
Isomorphic Exe(1).PY - C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Isomorphic
File Edit Format Run Options Window Help
def isIsomorphic(str1, str2):
    dict_str1 = {}
    dict_str2 = {}
    for i, value in enumerate(str1):
        dict_str1[value] = dict_str1.get(value, []) + [i]
    for j, value in enumerate(str2):
        dict_str2[value] = dict_str2.get(value, []) + [j]
    if sorted(dict_str1.values()) == sorted(dict_str2.values()):
        return True
    else:
        return False
S=str(input("Enter a string1:"))
T=str(input("Enter a string2:"))
print(isIsomorphic(S, T))

IDLE Shell 3.10.6
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>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Isomorphic Exe(1).PY
Enter a string1:egg
Enter a string2:odd
True
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Isomorphic Exe(1).PY
Enter a string1:foo
Enter a string2:ibar
False
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Isomorphic Exe(1).PY
Enter a string1:paper
Enter a string2:title
True
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Isomorphic Exe(1).PY
Enter a string1:fray
Enter a string2:sky
True
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Isomorphic Exe(1).PY
Enter a string1:apples
Enter a string2:apple
False
>>>
```

```
Modify String Exe(10).PY - C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Modify String
File Edit Format Run Options Window Help
def addFrequencyToCharacter(s):
    frequency = [0] * 26
    n = len(s)
    for i in range(n):
        frequency[ord(s[i]) - ord('a')] += 1
    for i in range(n):
        add = frequency[ord(s[i]) - ord('a')] % 26
        if (ord(s[i]) + add <= ord('z')):
            s[i] = chr(ord(s[i]) + add)
        else:
            add = (ord(s[i]) + add) - (ord('z') + 1)
            s[i] = chr(ord('a') + add - 1)
    print("".join(s))
if __name__ == '__main__':
    str = str(input("Enter a string: "))
    addFrequencyToCharacter([i for i in str])

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>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Modify String Exe(10).PY
enter a string: ghee
higg
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Modify String Exe(10).PY
enter a string: elephant
gmqqibou
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Modify String Exe(10).PY
enter a string: apple
brmmf
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Modify String Exe(10).PY
enter a string: orange
psbohfv
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Modify String Exe(10).PY
enter a string: lion
mjpo
>>>
```

```
Polindrome or not Exe(4).PY - C:/Users/Lenovo/OneDrive/Docum
File Edit Format Run Options Window Help
def is_palindrome(s):
    if len(s) < 1:
        return True
    else:
        if s[0] == s[-1]:
            return is_palindrome(s[1:-1])
        else:
            return False
a=str(input("Enter string:"))
if(is_palindrome(a)==True):
    print("true!")
else:
    print("false!")

IDLE Shell 3.10.6
File Edit Shell Debug Options Window Help
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Polindrome o
r not Exe(4).PY
Enter string:l2l
true!
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Polindrome o
r not Exe(4).PY
Enter string:-l2l
false!
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Polindrome o
r not Exe(4).PY
Enter string:l0
false!
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Polindrome o
r not Exe(4).PY
Enter string:abc
false!
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Polindrome o
r not Exe(4).PY
Enter string:0
true!
>>>
```

```
Party Exe(9).PY - C:/Users/Lenovo/OneDrive/
File Edit Format Run Options Window
E=[]
L=[]
T=int(input("range T:"))
for i in range(T):
    e=int(input("E:"))
    E.append(e)
for i in range(T):
    l=int(input("L:"))
    L.append(l)
Sum=0
Max=0
for i in range(T):
    Sum+=E[i]-L[i]
    Max=max(Sum,Max)
print("output",Max)

IDLE Shell 3.10.6
File Edit Shell Debug Options Window Help
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>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Party Exe(9)
.PY
range T:-4
output 0
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Party Exe(9)
.PY
range T:0
output 0
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Party Exe(9)
.PY
range T:4
E:l2
E:85
E:0
E:0
L:l00
L:0
L:0
output 0
>>>
= RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Party Exe(9)
.PY
range T:5
E:l42
E:0
E:35
E:l2
E:l5
L:l
L:2
L:l
L:3
L:4
```

S

```
def countstrings(n, start):
    if n==0:
        return 1
    cnt=0
    for i in range(start,5):
        cnt+=countstrings(n-1,i)
    return cnt
def countvowelstrings(n):
    return countstrings(n,0)
n=int(input("Enter input:"))
print(countvowelstrings(n))
except RecursionError:
    print("Invalid")
```

```
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>>> = RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Returns the num of strings Exe(7).PY
enter input:1
5
>>> = RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Returns the num of strings Exe(7).PY
enter input:2
15
>>> = RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Returns the num of strings Exe(7).PY
enter input:33
66045
>>> = RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Returns the num of strings Exe(7).PY
enter input:-5
Invalid
>>> = RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Returns the num of strings Exe(7).PY
enter input:0
1
>>> = RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Returns the num of strings Exe(7).PY
enter input:10
1001
>>>
```

```
def isNumber(S) -> bool:
    num, exp, sign, dec = False, False, False, False
    for c in S:
        if c >= '0' and c <= '9':
            num = True
        elif c == 'e' or c == 'E':
            if exp or not num:
                return False
            else:
                exp, num, sign, dec = True, False, False, False
        elif c == '+' or c == '-':
            if sign or num or dec:
                return False
            else:
                sign = True
        elif c == '.':
            if dec or exp:
                return False
            else:
                dec = True
        else:
            return False
    return num
a=input("S=")
print(isNumber(a))
```

```
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>>> = RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Valid Number Split Exe(8).py
S=o
False
>>> = RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Valid Number Split Exe(8).py
S=e
False
>>> = RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Valid Number Split Exe(8).py
S=" "
False
>>> = RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Valid Number Split Exe(8).py
S="."
False
>>> = RESTART: C:/Users/Lenovo/OneDrive/Documents/Python Programs Day 1/Valid Number Split Exe(8).py
S=
False
>>>
```