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main.py

```
#write a program to check whether the given string has'@gmail.com'at the end or not using fu
def func(a):
    if g in a[-10:]:
        print(True)
    else:
        print(False)
g='@gmail.com'
a=input("Enter a string:")
func(a)
```

input

```
Enter a string:@gmail.comafifah
False


...Program finished with exit code 0
Press ENTER to exit console.
```

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main.py

```
#write a function that accepts a value . if the value is>=200 print"you cannot increase" els
def value(a):
    if a>=200:
        print("you cannot increase")
    else:
        print("updated value is ",a+5)
a=int(input("enter a"))
value(a)
```

input

```
enter a200
you cannot increase


...Program finished with exit code 0
Press ENTER to exit console.
```

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main.py

```python
#create a class Student,an object of class student, object should have name,
class Student():
    def __init__(self, name,age,marks1,marks2,marks3):
        self.name=name
        self.age=age
        self.marks1=marks1
        self.marks2=marks2
        self.marks3=marks3
    def total(self):
        return self.marks1+self.marks2+self.marks3
    def average(self):
        return self.total()/3
student1 = Student("Afifah ",21,56,97,23)
print(student1.name)
print(student1.age)
print(student1.marks1)
print(student1.marks2)
print(student1.marks3)
print("Total is",student1.total())
print("Average is",student1.average())
```

input

```
Afifah
21
56
97
23
Total is 176
Average is 58.666666666666664


...Program finished with exit code 0
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```

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main.py

```python
#create a class Student,an object of class student, object should have name,
class Student():
    def __init__(self, name,age,marks1,marks2,marks3):
        self.name=name
        self.age=age
        self.marks1=marks1
        self.marks2=marks2
        self.marks3=marks3
student1 = Student("Afifah ",21,56,97,23)
print(student1.name)
print(student1.age)
print(student1.marks1)
print(student1.marks2)
print(student1.marks3)

```

input

```
Afifah
21
56
97
23


...Program finished with exit code 0
Press ENTER to exit console.
```

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py

```python
#create a method inside class Student, that returns the sum of marks, print sum
class Student():
    def __init__(self, name,age,marks1,marks2,marks3):
        self.name=name
        self.age=age
        self.marks1=marks1
        self.marks2=marks2
        self.marks3=marks3
    def total(self):
            return self.marks1+self.marks2+self.marks3
student1 = Student("Afifah ",21,56,97,23)
print(student1.name)
print(student1.age)
print(student1.marks1)
print(student1.marks2)
print(student1.marks3)
print("Total is",student1.total())
```

input

```
Afifah
21
56
97
23
Total is 176


...Program finished with exit code 0
Press ENTER to exit console.
```

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main.py

```
#write a program to print the fibanocci using recursion


def fibanocci(n):
  if(n==0):
     return 0
  elif(n==1):
     return 1
  else:
     return(fibanocci(n-1) + fibanocci(n-2))

n=int(input("Enter the number:"))
print("Fibanocci series:")
for n in range(0,n):
  print(fibanocci(n))
```

input

```
Enter the number:10
Fibanocci series:
0
1
1
```

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main.py

```
1 #write a program to find the index of an element in a list
2 a=[23,86,45,975]
3 print(a.index(45))
```

input

```
2


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```

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main.py

```
#write a program to find maximum number using functions
def max_num(a,b,c):
    if a>b and b>c:
        print(a,"is the maximum number")
    elif b>a and b>c:
        print(b,"is the maximum number:")
    else:
        print(c,"is the maximum number")
a=int(input("enter a"))
b=int(input("enter b"))
c=int(input("enter c"))
max_num(a,b,c)
```

input

```
enter a5
enter b97
enter c10
97 is the maximum number:


...Program finished with exit code 0
Press ENTER to exit console.
```

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py

```
#write a program to find maximum element in list without using in-built methods
a=[46,2,56,898,43]
max_num=a[0]
for i in a:
    if i>max_num:
        max_num=i
print("maximum number:",max_num)
```

input

```
maximum number: 898


...Program finished with exit code 0
Press ENTER to exit console.
```

```python
def factorial(n):
    if n == 0:
        return 1
    else:
        result = 1
        for i in range(1, n + 1):
            result *= i
        return result

def sum_of_factorials(num1, num2):
    return factorial(num1) + factorial(num2)


num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))

print("Sum of factorials:", sum_of_factorials(num1, num2
```

input

```
Enter the first number: 1
Enter the second number: 5
Sum of factorials: 121


...Program finished with exit code 0
Press ENTER to exit console.
```