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```
#1.Area of triangle
a=float(input("Enter 1st side of triangle==>"))
b=float(input("Enter 2nd side of triangle==>"))
c=float(input("Enter 3rd side of triangle==>"))
s=(a+b+c)/2
t=s*(s-a)*(s-b)*(s-c)
area = t ** 0.5
area
```

```
Enter 1st side of triangle==>3
Enter 2nd side of triangle==>4
Enter 3rd side of triangle==>5
6.0
```



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RAM

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```
[ ] #2.string palindrome or not
str=input("Enter string:")
rev=reversed(str)
if list(str)==list(rev):
    print("Given string is palindrome")
else:
    print("Given string is not palindrom
```

```
Enter string:madam
Given string is palindrome
```

```
[45] #3.check whether the given year leap yea
year=int(input("Enter year==>"))
if year%4==0 and year%100!=0 or year%400
    print ("leap year : ",year)
else:
    print("not a leap year: ",year)
```

```
Enter year==>2020
leap year : 2020
```



```
#4.replace space with hyphen
str="Welcome to python programming classe
str=str.replace(' ','-')
str
```

```
'Welcome-to-python-programming-classe
s'
```



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Untitled9.ipynb

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```
#5.unique sort problem
str=input('Enter a string: ')
strlist=str.split(',')
strset=set(strlist)
strlist=list(strset)
strlist.sort()
final=', '.join(strlist)
print(final)
```

Enter a string: orange,white,red,cyan,green,magenta,cyan,pink,white
cyan,green,magenta,orange,pink,red,white



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```
salary=int(input("Enter salary-:"))
if salary>1500000:
    print("Tax to be paid=",salary*30/100)
elif salary>=1250001 and salary<=1500000:
    print("Tax to be paid=",salary*25/100)
elif salary>=1000001 and salary<=1250000:
    print("Tax to be paid=",salary*20/100)
elif salary>=750001 and salary<=1000000:
    print("Tax to be paid=",salary*15/100)
elif salary>=500001 and salary<=750000:
    print("Tax to be paid=",salary*10/100)
elif salary>=250001 and salary<=500000:
    print("Tax to be paid=",salary*5/100)
else:
    print("No tax to be paid:-)")
```



```
Enter salary-:250000
No tax to be paid:-)
```

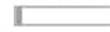




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RAM



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[6]

```
#6.tax calculator
salary=int(input("Enter salary-:"))
if salary>1500000:
    print("Tax to be paid=",salary*30/100)
elif salary>=1250001 and salary<=1500000:
    print("Tax to be paid=",salary*25/100)
elif salary>=1000001 and salary<=1250000:
    print("Tax to be paid=",salary*20/100)
elif salary>=750001 and salary<=1000000:
    print("Tax to be paid=",salary*15/100)
elif salary>=500001 and salary<=750000:
    print("Tax to be paid=",salary*10/100)
elif salary>=250001 and salary<=500000:
    print("Tax to be paid=",salary*5/100)
else:
    print("No tax to be paid:-")
```

```
Enter salary-:750000
Tax to be paid= 75000.0
```



```
#7.elements in list to one number
list=[11,33,22]
for i in list:
    print(i,end='')
```

```
113322
```





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[]

#8.units of time

```
days=int(input("enter no. of days"))
hours=int(input("enter no. of hours"))
minutes=int(input("Enter minutes"))
seconds=int(input("Enter seconds"))
tot=seconds+minutes*60+hours*3600+days*24*60*60
print("total seconds=",tot)
```

```
enter no. of days1
enter no. of hours2
Enter minutes4
Enter seconds0
total seconds= 93840
```



#9.max and min functions

```
a=int(input("Enter 1st number:"))
b=int(input("Enter 2nd number:"))
c=int(input("Enter 3rd number:"))
print("maximum number=",max(a,b,c))
print("minimum number=",min(a,b,c))
```

```
Enter 1st number:5
Enter 2nd number:2
Enter 3rd number:0
maximum number= 5
minimum number= 0
```




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#10.succesive date month year

y=int(input("Enter year YYYY:"))

m=int(input("Enter month MM:"))

d=int(input("Enter date DD:"))

0<m<13

0<d<32

if d==31 and m==12 :

print ("YYYY-MM-DD : {}".format

elif (d==31and (m==1 or 3 or 5 or 7 or 8

print ("YYYY-MM-DD : {}".format

elif (d==30 and (m==4 or 6 or 9 or 11)

print("YYYY-MM-DD : {}".format

elif (d==28 and m==2 and y%4==0):

print ("YYYY-MM-DD : {}".format

elif(d==28 and m==2):

print ("YYYY-MM-DD : {}".format

else :

print ("YYYY-MM-DD : {}".format



Enter year YYYY:2001

Enter month MM:10

Enter date DD:27

YYYY-MM-DD : 2001-10-28



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```
[ ] #11.product of list of numbers
def product(nums):
    fact=1
    for i in nums:
        fact=fact*i
    return fact
list=[45,3,2,89,72,1,10,7]
print("out_list:",product(list))
```

```
out_list: 121111200
```



```
#12.convert (5,6,8,34,89,1) to [11,14,42,
list=[]
tup=(5,6,8,34,89,1)
a=tup[0]
b=tup[1]
c=tup[2]
d=tup[3]
e=tup[4]
f=tup[5]
list.extend([a+b,b+c,c+d,d+e,e+f])
list
```

```
[11, 14, 42, 123, 90]
```

```
[ ] #13.convert (5,6,8,3,9,1) to[5,30,240,720
list=[]
tup=(5,6,8,3,9,1)
a=tup[0]
b=tup[1]
c=tup[2]
d=tup[3]
e=tup[4]
f=tup[5]
list.extend([a,b*a,c*b*a,d*c*b*a,e*d*c*b*
list
```

```
[5, 30, 240, 720, 6480, 6480]
```





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```
[ ] list
```

```
[ ] [5, 30, 240, 720, 6480, 6480]
```

```
[ ] #14.number to list  
num=536789  
list=[]  
while(num>0):  
    r=num%10  
    list.append(r)  
    num=num//10  
list[::-1]
```

```
[ ] [5, 3, 6, 7, 8, 9]
```



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```
#15.long string palindrome
def subpalindromecheck(string):
    palindrome=0
    for i in range(0,len(string)):
        for j in range(i+1,len(string)):
            if string[i:j] == string[j:i:-1]:
                if len(string[i:j])>palindrome:
                    palindrome=len(string[i:j])
                    palindromestring=(string[i:j+1])
                    palindrome=1
        if palindrome:
            return palindromestring
        else:
            return "No string palindrome"
string=input('Enter a string: ')
print(subpalindromecheck(string))
```

Enter a string: siri
iri



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#16.substring check

a=input("enter 1st binary number ==>")

b=input("enter 2nd binary number==>")

c=0

for i in range(0,len(a)):

if a[i:i+len(b)]==b:

c=c+1

if c==0:

print("b is not substring of a")

else:

print("b is substring of a")



enter 1st binary number ==>9951164635

enter 2nd binary number==>64635

b is substring of a

