Hyphens

```
def hyphens(s):
    alph=''
    hyp=''
    for i in s:  #h
        if i=='-':
            hyp=hyp+i  #''+'-' = '-','-'+'-'='--'
        else:
            alph=alph+i  #''+h='h'+'e'='he'+'l'='hel'
    return hyp+alph

hyphens("vinay-sindhu-siet")
```

```
'--vinaysindhusiet'
```

```
def get_remainder(n,num):
    if n==0:
        return "divisor can not be zero"
    r=n%num
    return r



res=get_remainder(112,12)
print(res)
```

```
4
```

Nbase

```
def nbase(num,n):
    remi=[]
    while num!=0:
        rem=num%n #10    #11   #4
        remi.append(rem)
        num=num//n #59   #4    #0
    result=''
    for i in remi:
        if i>9:
            c=chr(i+55)
            result=result+c
        else:
            c=str(i)
            result=result+c
    return result[::-1]

nbase(54444444444444,13)
```

```
'244C120933A82'
```

```
rem=14
c=chr(rem+55)
print(c)
```

```
E
```

Password Checker

```
def password(pwd):
    if len(pwd)<4:
        return 0
    if pwd[0].isdigit():
        return 0
    cap=0
    nu=0
    for i in pwd:
        if i.isupper():
            cap=1
        elif i.isdigit():
            nu=1
        elif i==" " or i=="/":
            return 0
    if cap==1 and nu==1:
        return 1
    else:
        return 0


password("a/c bn")
```

```
0
```

```
password("Ah56")
```

```
1
```

Difference between sum of divisible and not divisible

```
def sumdif(p,q): #p=5 , q=30
    div = 0
    notdiv = 0
    for i in range(1, q+1):
        if i%p == 0:
            div = div+i
        else:
            notdiv = notdiv +i
    return abs(div - notdiv)
```

```
sumdif(5,30)
```

```
255
```

Large and small number sum

```
def lss(arr):
    n=len(arr)
    e=arr[0:n:2]
    o=arr[1:n:2]
    print(e)
    print(o)
    e.sort(reverse=True)
    o.sort()
    return e[1]+o[1]

lss([4,1,3,6,2,11,5,5])
```

```
[4, 3, 2, 5]
[1, 6, 11, 5]
```

```
9
```

Product of smallest pair

```
def fss(arr,sum):
    if len(arr)<2:
        return -1
    arr.sort()
    if arr[0]+arr[1]<=sum:
        return arr[0]*arr[1]
    else:
        return 0



fss([4,1,35,7],15)
```

```
4
```

Absolute Difference

```
def count(arr,num,diff):
    count=0
    for i in arr:
        if abs(i-num)<=diff:
            count=count+1
    if count==0:
        return -1
```

```
    else:
        return count

count([2,3,45,7],7,2)
```

```
1
```

Valid paranthesis

```
dict1={'(':')','{':'}','[':']'}
i=')'
print(i in dict1)
```

```
False
```

```
def validpara(p):
    for i in p:
        if i in dict1:
            print("found")
        else:
            print("not found")

validpara('[{()}]')
```

```
found
found
found
not found
not found
not found
```

```
def validpara(p):
    dict1={'(':')','{':'}','[':']'}
    stack=[]
    for i in p:
        if i in dict1:
            stack.append(dict[i])
        else:
            if stack[-1]==i:
                stack.pop()
    if len(stack)==0:
        return "valid"
    else:
        return "invalid"



validpara("[{[{]}}")
```

```
'invalid'
```