

resource url?

QUESTION -----

complete function to implement coin change making problem i.e. finding the minimum

-----ANSWER

```
def coinChange(n):
    count=0
    while(n>=4):
        n=n-4
        count+=1
    while(n>=3):
        n=n-3
        count+=1
    while(n>=2):
        n=n-2
        count+=1
    while(n>=1):
        n=n-1
        count+=1
    return count
```

QUESTION -----

An automorphic number is a number whose square ends with the number itself.

-----ANSWER

```
def automorphic(n):
    pro=n*n
    r=pro%10
    if(n==r):
        return "Automorphic"
    return "Not Automorphic"
```

QUESTION -----

Given a number with maximum of 100 digits as input, find the difference between the sum

-----ANSWER

```
def differenceSum(n):
    num_str = str(n)

    sum_even = 0
    sum_odd = 0

    for i in range(len(num_str)):
        digit = int(num_str[i])
        if i % 2 == 0:
            sum_even += digit
        else:
            sum_odd += digit

    return abs(sum_even - sum_odd)
```

QUESTION -----

A number is considered to be ugly if its only prime factors are 2, 3 or 5.

-----ANSWER

```
def checkUgly(n):
    if n <= 0:
        return "not ugly"
    while n % 2 == 0:
        n /= 2
    while n % 3 == 0:
        n /= 3
    while n % 5 == 0:
        n /= 5
    return "ugly" if n == 1 else "not ugly"
```

QUESTION -----

Write a code to check whether product of digits at even places is divisible by sum of digits

-----ANSWER

```
def productDigits(n):
    sum=0
    pro=1
    L=[]
    while(n>0):
        rem=n%10
        n//=10
        L.append(rem)
    L=L[::-1]
    for i in range(len(L)):
        if(i%2==0) or (i==0):
            sum+=L[i]
        else:
            pro*=L[i]
    if(pro%sum==0):
        return True
    return False
-----
```