Q.WAP to accept age,gender and number of days and display the wages according to the given table

.....Age.....Gender.....Wages/day

:>=18 and <30.....M.....700

.....F.....750

:>=30 and <=40.....M.....800

.....F.....850

In [2]:
```
age=int(input("Enter your age:"))
Gender=input("Enter your gender:")
days=int(input("Enter number of days:"))
wages_earned=0
if(Gender=="M"):
    if(age>=18 and age<30):
        wages_earned=days*700
    elif(age>=30 and age<=40):
        wages_earned=days*800
    else:
        print("Enter valid age")
elif(Gender=="F"):
    if(age>=18 and age<30):
        wages_earned=days*750
    elif(age>=30 and age<=40):
        wages_earned=days*850
    else:
        print("Enter valid age")
else:
    print("Enter valid gender")
print("Age:",age,"Gender:",Gender,"Days worked:",days,"Wages earned:",wages_earned)
```

```
Enter your age:25
Enter your gender:F
Enter number of days:20
Age: 25 Gender: F Days worked: 20 Wages earned: 15000
```

WAP to accept three sides of triangle and check wether its equilateral,isosceles or scalen triangle

equilateral:all sides equal scalene:three enequl sides isosceles:two sides aare equal

In [8]:
```
side1=int(input("Enter side-1:"))
side2=int(input("Enter side-2:"))
side3=int(input("Enter side-3:"))
if(side1==side2==side3):
    print("It is an equilateral triangle")
elif((side1==side2)or(side2==side3)or(side3==side1)):
    print("It is a Isosceles triangle")
else:
    print("It is scalene triangle")
```

```
Enter side-1:10
Enter side-2:20
Enter side-3:10
It is a Isosceles triangle
```

Q.Find sum of n natural numbers

In [11]:
```
num=int(input("Enter number"))
sum=int(num*((num+1)/2))
print("Sum:",sum)
```

```
Enter number10
Sum: 55
```

Q.Ask for the numbers from user and find average

In [3]:
```
limit=int(input("Enter how many numbers you want to sum"))
sum=0
for i in range(limit):
    num=int(input(f"Enter a number{i+1}:"))
    sum+=num
print("Sum:",sum)
avg=sum/limit
print("Average:",avg)
```

```
Enter how many numbers you want to sum5
Enter a number1:1
Enter a number2:2
Enter a number3:3
Enter a number4:4
Enter a number5:5
Sum: 15
Average: 3.0
```

Q.Find the sum of digits in a number

In [7]:
```
num=int(input("Enter a number:"))
sum=0
temp=num
while temp!=0:
    sum+=temp%10
    temp//=10
print("Sum:",sum)
```

```
Enter a number:23679
Sum: 27
```

Q.WAP to reverse the numer

In [13]:
```
n=int(input("Enter a number:"))
rev_num=0
while n!=0:
    digit=n%10
    rev_num=rev_num*10+digit
    n=n//10
print("Reverse number:",rev_num)
```

```
Enter a number:123
Reverse number: 321
```

Q.Check the palindrome number

In [14]:
```
n=int(input("Enter a number:"))
temp=n
rev_num=0
while n!=0:
    digit=n%10
    rev_num=rev_num*10+digit
    n=n//10
```

```
if(temp==rev_num):
    print("It is palindrome")
else:
    print("It is not palindrome")
```

```
Enter a number:121
It is palindrome
```

Q.check for the armstrong number

In [5]:
```
import math as m
n=int(input("Enter a number:"))
temp=n
sum=0
c=len(str(n))
while n!=0:
    digit=n%10
    sum+=m.pow(digit,c)
    n=n//10
if(sum==temp):
    print("Armstrong")
else:
    print("Not armstrong")
```

```
Enter a number:153
Armstrong
```

Q.Check for the prime number

In [4]:
```
num=int(input("Enter a number"))
c=0
for i in range (2,num):
    if(num%i==0):
        c+=1
print(c)
if (c>0):
    print("Not a prime number.")
else:
    print("Prime number")
```

```
Enter a number2
0
Prime number
```

Q.Print prime numbers between 1 to 100

In [27]:
```
count=0
for i in range (2,101):
    c=0
    for j in range(2,i):
        if(i%j==0):
            c+=1
            break
    if(c==0):
        count+=1
        print(i)
print("Count:",count)
```

```
2
3
5
7
11
```

```
13
17
19
23
29
31
37
41
43
47
53
59
61
67
71
73
79
83
89
97
Count: 25
```

Q.Happy number

In [ ]:
```
number=int(input("Enter a number:"))
sum=0
flag=True
while flag:
    print(num)
    sum=0
    digits
```

```
Enter a number:13
```

In [ ]:
```

```