In [34]:
```
# Progream 1
import time
t=time.localtime()
print('a)',time.strftime('%A,%B %d 20%y',t))
print('b)',time.strftime('%M:%S %p Central Day Light Time on %d/%b/%y',t))
print('c)',time.strftime('I will meet you on %a %b %d at %M:%S %p'))
```

```
a) Monday,December 16 2019
b) 28:14 PM Central Day Light Time on 16/Dec/19
c) I will meet you on Mon Dec 16 at 28:14 PM
```

In [2]:
```
# Program 2
forcast = 'It will be a sunny day today'
print('a)',forcast.count('day'))
print('b)',forcast.find('sunny'))
print('c)',forcast.replace('sunny','cloudy'))

```

```
a) 2
b) 13
c) It will be a cloudy day today
```

In [10]:
```
# Program 3
def even(n):
    n=int(input("Enter the integer: "))
    for t in range(2,17):
        if t%2==0 or t%3==0 :
            print(t,end=',')
even('n')
```

```
Enter the integer: 2
2,3,4,6,8,9,10,12,14,15,16,
```

In [6]:
```
# Program 4
def mailaddress():
    first = 'Syed Faisal Ali'
    last = 'Asst. Prof.'
    state='Department of Computer Science'
    Uni='Usman Institute Technology'
    Area='Gulshan e Iqbal'
    number='75300'
    city='Karachi'
    string=('{}\n{}\n{}\n{}\n{},{}\n{}')
    print(string.format(first,last,state,Uni,Area,number,city))
mailaddress()
```

```
Syed Faisal Ali
Asst. Prof.
Department of Computer Science
Usman Institute Technology
Gulshan e Iqbal,75300
Karachi
```

In [41]:
```
# Program 5
def month(x):
    months = ['','Jan','Feb','Mar','Apr','May','Jun','July','Aug','Sep','Oct
    return months[x]
month(11)
```

Out[41]:
```
'Nov'
```

In [3]:
```
# Program 6
def cheer(uitians):
    print("How do you spell winner?"+
          "\nI know,I know!"+"\n"+' '.join(uitians.upper()+'!')+
          "\nAnd that's how you spell winner!"+"\nGo Uitians!")
cheer('uitians')
```

```
How do you spell winner?
I know,I know!
U I T I A N S !
And that's how you spell winner!
Go Uitians!
```

In [5]:
```
# Program 7
import time
def POS():
    User = input("Enter User Name :")
    x = input("Enter the type of Burger : ")
    y = eval(input("Enter the Quantity of Burger : "))
    z = eval(input("Enter the rate of Burger : "))
    total = y * z
    gst = (total/100)*17
    time1= time.strftime('%b %d %Y', time.localtime())
    print(time1)
    print("User Name :          ",User)
    print("Type of Burger:      ",x)
    print("Quantity of Burger:  " ,y)
    print("Cost :               ",total)
    print("GST 13% :            ",gst)
    print("Total :           Rs",total+gst)
POS()

```

```
Enter User Name :FAAIZ
Enter the type of Burger : Zinger
Enter the Quantity of Burger : 2
Enter the rate of Burger : 200
Jan 23 2020
User Name :          FAAIZ
Type of Burger:      Zinger
Quantity of Burger:  2
Cost :               400
GST 13% :            68.0
Total :           Rs 468.0
```

In [4]:

```
# program 8
def convert():
    x=24
    print('In Binar: ',bin(x))
    print('In Octal: ',oct(x))
    print('In Decimal: ',(x))
    print('In Hexa_decimal: ',hex(x))
convert()
```

```
In Binar:  0b11000
In Octal:  0o30
In Decimal:  24
In Hexa_decimal:  0x18
```

In [1]:

```
# Program 9
def printv(x):
    fees = {'Name': '', 'RollNo': '5', 'Semester': '1',
            'SemesterFee': '12000', 'SportsFee': '2500', 'MiscFee': '0'}
    fees['Name'] = x
    Sum = int(fees.get('SemesterFee')) + int(fees.get('SportsFee')) + int(fe
    print(" \t\tBank Copy\t\t\t\t\t School Copy\t\t\t\t\t\tStudent Copy")
    print("Student Name : {0}\t\tStudent Name : {0}\t\tStudent Name : {0}".f
    print("Roll Number  : {0}\t\t\t\tRoll Number  : {0}\t\t\t\tRoll Number
    print("Semester     : {0}\t\t\t\tSemester     : {0}\t\t\t\tSemester
    print("Semester Fee : {0}\t\t\tSemester Fee : {0}\t\t\tSemester Fee : {0
    print("Sports Fee   : {0}\t\t\t\tSports Fee   : {0}\t\t\t\tSports Fee
    print("Misc Fee     : {0}\t\t\t\tMisc Fee     : {0}\t\t\t\tMisc Fee
    print("--------------- \t\t\t    ------------------- \t\t\t-------------
    print("Total Fee     : {0}\t\t\tTotal Fee     : {0}\t\t\tTotal Fee    :
    print("Due Date     : 12-12-19\t\t\tDue Date     : 12-12-19\t\t\tDue Dat
    print("Teller Stamp : _____________\t\tTeller Stamp : _____________\t\tTel
    print('\n')
printv('ALi Khan')
printv('Ahmed')
printv('Sajid')
```

```
                Bank Copy                                       School Copy
Student Copy
Student Name : ALi Khan         Student Name : ALi Khan         Student Name
: ALi Khan
Roll Number  : 5                                Roll Number  : 5
Roll Number  : 5
Semester     : 1                                Semester     : 1
Semester     : 1
Semester Fee : 12000                    Semester Fee : 12000
Semester Fee : 12000
Sports Fee   : 2500                             Sports Fee   : 2500
Sports Fee   : 2500
Misc Fee     : 0                                Misc Fee     : 0
Misc Fee     : 0
---------------                             -------------------
---------------------
Total Fee     : 14500                   Total Fee     : 14500
Total Fee    : 14500
Due Date     : 12-12-19                 Due Date     : 12-12-19
Due Date     : 12-12-19
Teller Stamp : _____________            Teller Stamp : _____________
Teller Stamp : _____________


                Bank Copy                                       School Copy
Student Copy
Student Name : Ahmed            Student Name : Ahmed            Student Name
: Ahmed
Roll Number  : 5                                Roll Number  : 5
Roll Number  : 5
Semester     : 1                                Semester     : 1
Semester     : 1
Semester Fee : 12000                    Semester Fee : 12000
Semester Fee : 12000
Sports Fee   : 2500                             Sports Fee   : 2500
```

```
Sports Fee   : 2500
Misc Fee     : 0                                    Misc Fee     : 0
Misc Fee     : 0
---------------                                    -------------------
---------------------
Total Fee     : 14500                  Total Fee     : 14500
Total Fee    : 14500
Due Date     : 12-12-19               Due Date     : 12-12-19
Due Date     : 12-12-19
Teller Stamp : _____________          Teller Stamp : _____________
Teller Stamp : _____________


                Bank Copy                                          School Copy
Student Copy
Student Name : Sajid           Student Name : Sajid            Student Name
: Sajid
Roll Number  : 5                                   Roll Number  : 5
Roll Number  : 5
Semester     : 1                                   Semester     : 1
Semester     : 1
Semester Fee : 12000                  Semester Fee : 12000
Semester Fee : 12000
Sports Fee   : 2500                                Sports Fee   : 2500
Sports Fee   : 2500
Misc Fee     : 0                                   Misc Fee     : 0
Misc Fee     : 0
---------------                                    -------------------
---------------------
Total Fee     : 14500                  Total Fee     : 14500
Total Fee    : 14500
Due Date     : 12-12-19               Due Date     : 12-12-19
Due Date     : 12-12-19
Teller Stamp : _____________          Teller Stamp : _____________
Teller Stamp : _____________
```

In [2]:

```
# Program 10
def comparing():
    PSOP , PSOHSD , PSOLSD , PSOKO = 114.24,127.41,85.33,97.18
    SAP , SAD , SLDO , SSKO = 114.24,127.41,85.33,97.18
    petrol = eval(input("Ammount Of Petrol :"))
    HDiesel = eval(input("Ammount of High Speed Diesel :"))
    LDiesel = eval(input("Ammount of Low Speed Diesel :"))
    Kerosine = eval(input("Ammount of Kerosine Oil :"))
    print("\t\tPSO\t\t\t\t\t\t\t\tShell\t\t\t\tAmmount in Litres\t\t\tPSO
    print("Premium Super     : {0}\t\t\tAltron Premium: {1}\t\t\t\t{2}\t\t\t
    print("HighSpeed Diesel  : {0}\t\t\tAction+Diesel : {1}\t\t\t\t{2}\t\t\t
    print("LightSpeed Diesel : {0}\t\t\tLDO           : {1}\t\t\t\t{2}\t\t\t
    print("LightSpeed Diesel : {0}\t\t\tLDO           : {1}\t\t\t\t{2}\t\t\t

comparing()
```

```
Ammount Of Petrol :500
Ammount of High Speed Diesel :200
Ammount of Low Speed Diesel :200
Ammount of Kerosine Oil :300
                PSO
Shell                           Ammount in Litres                       PSO Cos
t               Shell Cost              Price Difference
Premium Super     : 114.24                      Altron Premium: 114.24
500                                     57120.0                 57120.0
0.0
HighSpeed Diesel  : 127.41                      Action+Diesel : 127.41
200                                     25482.0                 25482.0
0.0
LightSpeed Diesel : 85.33                       LDO           : 85.33
200                                     17066.0                 17066.0
0.0
LightSpeed Diesel : 97.18                       LDO           : 97.18
300                                     29154.000000000004
29154.000000000004                              0.0
```