In [ ]:

```
```

```
1.CIRCLE
2.RECTANGLE
3.EXIT
```

In [4]:

```
#area of circle and rectangle using module
import circleex10
from rectangleex10 import*


while(1):
    print("\n1.CIRCLE\n2.RECTANGLE\n3.EXIT")
    ch=int(input("Enter any option: "))
    if ch==1:
        r=int(input("Enter radius: "))
        carea=circleex10.cirarea(r)
        cper=circleex10.cirperimeter(r)
        print("AREA OF CIRCLE : ",carea,"\nPERIMETER OF CIRCLE: ",cper)
    elif ch==2:
        a=int(input("Enter length: "))
        b=int(input("Enter breadth: "))
        rarea=rectarea(a,b)
        rper=rectperimeter(a,b)
        print("AREA OF RECTANGLE : ",rarea,"\nPERIMETER OF RECTANGLE: ",rper)
    else:
        print("EXITING...")
        break
```

```
1.CIRCLE
2.RECTANGLE
3.EXIT
Enter any option: 1
Enter radius: 5
AREA OF CIRCLE :  78.53981633974483
PERIMETER OF CIRCLE:  31.41592653589793

1.CIRCLE
2.RECTANGLE
3.EXIT
Enter any option: 2
Enter length: 5
Enter breadth: 5
AREA OF RECTANGLE :  25
PERIMETER OF RECTANGLE:  20

1.CIRCLE
2.RECTANGLE
3.EXIT
Enter any option: 3
EXITING...
```

In [3]:

```
#10.2.1
#date before 5 days
from datetime import datetime,timedelta
cd=datetime.now()
print("Current date: ",cd.date())
d5=cd-timedelta(days=5)
print("Date before 5 days: ",d5.date())
```

```
Current date:  2022-01-06
Date before 5 days:  2022-01-01
```

In [4]:

```
#10.2.2
#yesterday,today,tomorrow
from datetime import datetime,timedelta
cd=datetime.now()
ys=cd-timedelta(days=1)
tw=cd+timedelta(days=1)
print("Date of yesterday: ",ys.date())
print("Date of today: ",cd.date())
print("Date of tomorrow: ",tw.date())
```

```
Date of yesterday:  2022-01-05
Date of today:  2022-01-06
Date of tomorrow:  2022-01-07
```

In [10]:

```
#10.2.3
#next 5 days
from datetime import datetime,timedelta
#import datetime

cd=datetime.now()
#cd=datetime.date.today()
for i in range(0,5):
    ys=cd+timedelta(days=i)
    print("day ",i+1,":" ,ys.date())
```

```
day  1 : 2022-01-06
day  2 : 2022-01-07
day  3 : 2022-01-08
day  4 : 2022-01-09
day  5 : 2022-01-10
```

In [9]:

```
#10.2.4
#days between 2 given dates
from datetime import datetime,timedelta

strdate1 = str(input('Enter date1(yyyy-mm-dd): '))
ddate1 = datetime.strptime(strdate1, "%Y-%m-%d")


print(ddate1.date())

strdate2 = str(input('Enter date2(yyyy-mm-dd): '))
ddate2 = datetime.strptime(strdate2, "%Y-%m-%d")

print(ddate2.date())

d3=ddate2-ddate1
print("The number of days between entered dates: ",d3.days)
```

```
Enter date1(yyyy-mm-dd): 2000-04-12
2000-04-12
Enter date2(yyyy-mm-dd): 2022-01-06
2022-01-06
The number of days between entered dates:  7939
```

In [2]:

```
#example of package program
import graphics.circle
import graphics.rectangle
from graphics.graphics3d.cuboid import *
from graphics.graphics3d.sphere import *
while(1):
    print("\n1.CIRCLE\n2.RECTANGLE\n3.CUBOID\n4.SPHERE\n5.EXIT")
    ch=int(input("Enter any option: "))
    if ch==1:
        r=int(input("Enter radius: "))
        carea=graphics.circle.cirarea(r)
        cper=graphics.circle.cirperimeter(r)
        print("AREA OF CIRCLE : ",carea,"\nPERIMETER OF CIRCLE: ",cper)
    elif ch==2:
        a=int(input("Enter length: "))
        b=int(input("Enter breadth: "))
        rarea=graphics.rectangle.rectarea(a,b)
        rper=graphics.rectangle.rectperimeter(a,b)
        print("AREA OF RECTANGLE : ",rarea,"\nPERIMETER OF RECTANGLE: ",rper)
    elif ch==3:
        l=int(input("Enter length: "))
        br=int(input("Enter breadth: "))
        h=int(input("Enter height: "))
        cubarea=cuboidsurarea(l,br,h)
        cubper=cuboidper(l,br,h)
        print("SURFACE AREA OF CUBOID : ",cubarea,"\nPERIMETER OF CUBOID: ",cubper)
    elif ch==4:
        r1=int(input("Enter the radius: "))
        spcircum=spherecircum(r1)
        spsurarea=spheresurarea(r1)
        print("CIRCUMFERENCE OF SPHERE : ",spcircum,"\nSURFACE AREA OF SPHERE: ",spsura
rea)
    else:
        print("EXITING...")
        break
```

```
1.CIRCLE
2.RECTANGLE
3.CUBOID
4.SPHERE
5.EXIT
Enter any option: 2
Enter length: 5
Enter breadth: 5
AREA OF RECTANGLE :  25
PERIMETER OF RECTANGLE:  20

1.CIRCLE
2.RECTANGLE
3.CUBOID
4.SPHERE
5.EXIT
Enter any option: 1
Enter radius: 5
AREA OF CIRCLE :  78.53981633974483
PERIMETER OF CIRCLE:  31.41592653589793

1.CIRCLE
2.RECTANGLE
3.CUBOID
4.SPHERE
5.EXIT
Enter any option: 3
Enter length: 5
Enter breadth: 5
Enter height: 5
SURFACE AREA OF CUBOID :  150
PERIMETER OF CUBOID:  60

1.CIRCLE
2.RECTANGLE
3.CUBOID
4.SPHERE
5.EXIT
Enter any option: 4
Enter the radius: 5
CIRCUMFERENCE OF SPHERE :  31.41592653589793
SURFACE AREA OF SPHERE:  314.1592653589793

1.CIRCLE
2.RECTANGLE
3.CUBOID
4.SPHERE
5.EXIT
Enter any option: 5
EXITING...
```