```
year=int(input("enter the year"))
val=year%12
if val==0:
    print("monkey")
elif val==1:
    print("rooster")
elif val==2:
    print("dog")
elif val==3:
    print("pig")
elif val==4:
    print("rat")
elif val==5:
    print("ox")
elif val==6:
    print("tiger")
elif val==7:
    print("rabbit")
elif val==8:
    print("dragon")
elif val==9:
    print("snakr")
elif val==10:
    print("horse")
else:
        print("sheep")
```

```
enter the year2012
dragon
```

```
dist=int(input("enter the distance"))
weight=int(input("enter the weight"))
if dist>=500:
    if weight>=100:
        amount=dist*5
    elif weight>=10 and weight<100:
        amount=dist*6
    else:
        amount=dist*7
else:
    if weight>=100:
        amount=dist*8
    else:
        amount=dist*5
print("total amount = ",amount)
```

```
enter the distance510
enter the weight120
total amount =  2550
```

```
type=["circle","stalls","upperclass"]
payment=["cash","card"]
seat=input("enter the type of seat :: ")
pmode=input("enter the type of payment mode :: ")
```

```
if seat in type[0]:
    if pmode in payment[0]:
        discnt=750*10/100
        cost=750-discnt
    elif pmode in payment[1]:
        discnt = 750 * 5 / 100
        cost = 750 - discnt
    else:
        print("error while entering payment mode")
elif seat in type[1]:
    if pmode in payment[0]:
        discnt = 650 * 10 / 100
        cost = 650 - discnt
    elif pmode in payment[1]:
        discnt = 650 * 5 / 100
        cost = 650 - discnt
    else:
        print("error while entering payment mode")
else:
    if pmode in payment[0]:
        discnt = 850 * 10 / 100
        cost = 850 - discnt
    elif pmode in payment[1]:
        discnt = 850 * 5 / 100
        cost = 850 - discnt
    else:
        print("error while entering payment mode")
print("cost of ticket  :: ",cost)
```

```
enter the type of seat :: 3
enter the type of payment mode :: card
cost of ticket  ::  807.5
```

```
water=int(input("enter weight of water in kilograms :: "))
intemp=int(input("enter initial temparature :: "))
fitemp=int(input("enter the final temperature :: "))
energy=water*(fitemp-intemp)*4184
print("enery required :: ",energy,"joules")
```

```
enter weight of water in kilograms :: 2
enter initial temparature :: 36
enter the final temperature :: 45
enery required ::  75312 joules
```

```
winter=["december","january","february"]
spring=["march","april","may"]
summer=["june","july","august"]
autumn=["september","october","november"]
month=input("enter the month :: ")
if month in winter:
    print("it is a winter season")
elif month in spring:
    print("it is a spring")
elif month in summer:
    print("it is a summer")
```

```
else:
    print("it is a autumn")
```

```
enter the month :: june
it is a summer
```

```
weight=int(input("enter the weight in pounds"))
height=float(input("enter the height in inches"))
w=(weight*0.45359237)
print(w)
h=(height*0.0254)
print(h)
BMI=w/(h**2)
print(BMI)
if BMI<18.5:
    print("underweight")
if BMI>=18.5 and BMI<25.0:
    print("normal")
if BMI>=25.0 and BMI<30.0:
    print("overweight")
if BMI>30.0:
    print("obese")
```

```
enter the weight in pounds20
enter the height in inches10
9.071847400000001
0.254
140.61391592783187
obese
```

```
num=int(input("enter a number between 100 and 1000 :: "))
rem=0
sum=0
if(num>100 and num<1000):
    while num>0:
        rem=num%10
        sum=sum+rem
        num=num//10
    print(sum)
else:
    print("the number entered is not in the range")
```

```
enter a number between 100 and 1000 :: 544
13
```

```
rem=0
for i in range(1,1000):
    n=i
    rev=0
    while n>0:
        rem=n%10
        rev=rev*10+rem
        n=n//10
    if i==rev:
        print(i)
```

1
2
3
4
5
6
7
8
9
11
22
33
44
55
66
77
88
99
101
111
121
131
141
151
161
171
181
191
202
212
222
232
242
252
262
272
282
292
303
313
323
333
343
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363
373
383
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404
414
424
434
444
454
464
474
484

494
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515
525
535
545
555
565
575
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595
606
616
626
636
646
656
666
676
686
696
707
717
727
737
747
757
767
777
787
797
808
818
828
838
848
858
868
878
888
898
909
919
929
939
949
959
969
979
989
999

```
rem=0
for i in range(1,1000):
```

```
    n=i
    rev=0
    while n>0:
        rem=n%10
        rev=rev+rem**3
        n=n//10
    if i==rev:
        print(i)
```

```
1
153
370
371
407
```

```
for i in range(1,100):
    if i%3==0 and i%5==0:
        print("fizz buzz")
    elif i%3==0:
        print("fizz")
    elif i%5==0:
        print("buzz")
```

```
fizz
buzz
fizz
fizz
buzz
fizz
fizz buzz
fizz
buzz
fizz
fizz
buzz
fizz
```

```
h=int(input("enter height of the well :: "))
u=int(input("enter the meters spider climb up for each sstep :: "))
d=int(input("enter the meters the spider slips down for each step :: "))
s=0
t=0
p=0
while t<=h:
    t=t+u
    if(t<=h):
        t=t-d
    s=s+1
print(s)
```