```
1
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 year2020
     rat
dist=int(input("distance to be travelled"))
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)
С→
```

```
distance to be travelled75
     enter the weight3
3
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)

ightharpoonup enter the type of seat :: upper class
     enter the type of payment mode :: cash
     cost of ticket :: 765.0
4
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")
\Box
```

_

```
enter weight of water in kilograms :: 6
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 :: august
     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")
r→ enter the weight in pounds50
     enter the height in inches4
     22.6796185
     0.1016
     2197.092436372373
     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 :: 222
8
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)
С→
```

```
494
     505
     515
     525
     535
     545
     555
     565
     575
     585
     595
     606
     616
     626
     636
     646
     656
     666
     676
9
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)
С⇒
    1
     153
     370
     371
     407
     878
10
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")
С→
```

11

•••

```
fizz
     buzz
     fizz
     fizz
     buzz
     fizz
     fizz buzz
     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):</pre>
        t=t-d
    s=s+1
print(s)
```

enter height of the well :: 50
enter the meters spider climb up for each sstep :: 5
enter the meters the spider slips down for each step :: 24