

Ex. No. : 2.1 Widgets and Gizmos

Program:

```
a=int(input())
b=int(input())
t=a*75+b*112
print("The total weight of all these widgets and gizmos is",t,"grams.")
```

Ex. No. : 2.2 Hamming Weight

Program:

```
a=int(input())
binary=bin(a
)[2:] c=0 for
char      in
binary:    if
char=='1':
c=c+1
print(c)
```

Ex. No. : 2.3 Doll Sings

Program:

```
a=int(input())
if(a>0 and
a<101):
if(a%2==0):
print("True")
else:
print("False")
```

Ex. No. : 2.4 Return last digit of the given number

Program:

```
a=int(input()
) b=abs(a)
c=b%10
print(c)
```

Ex. No. : 2.5 Tax and Tip

Program:

```
a=int(input())
tax=a*0.05
tip=a*0.18
total=a+tax+tip

print("The tax is ",format(tax,".2f")," and the tip is ",format(tip,".2f"),",",", " making the total
",format(total,".2f"),sep="")
```

Ex. No. : 2.6 Eligible to donate blood

Program:

```
a=int(input())
b=int(input())
if(a>=18 and
b>40):
print("True")
```

else:

print("False")

Ex. No. : 2.7 Birthday Party

Program:

```
a=int(input(
)) b=[] for i
in range(4):
c=int(input(
))
    b.append(c) for i in
range(4):
if(b[i]%a==0):
print("True",end=" ")
else:
    print("False",end=" ")
```

Ex. No. : 2.8 Troy Battle

Program:

```
a=int(input())
b=int(input())
if(a%3==0 and
b%2==0):

print("True")
```

```
else:  
print("False")
```

Ex. No. : 2.9

Compound Interest

Program:

```
a=int(input())  
b=a+a*0.04 c=b+b*0.04 d=c+c*0.04 print("Balance as of end  
of Year 1: ", "$", format(b, ".2f"), " ", sep="") print("Balance as  
of end of Year 2: ", "$", format(c, ".2f"), " ", sep="")  
print("Balance as of end of Year 3:  
", "$", format(d, ".2f"), " ", sep="")
```

Ex. No. : 2.10 C or D

Program:

```
a=int(input())  
if(a==0):  
print("C")  
elif(a==1):  
print("D")
```