

Ex. No. : 3.1 Classifying Triangles

Program:

```
a=int(input())          b=int(input())

c=int(input()) if(a==b and b==c and
c==a):

print("That's", "a", "equilateral
triangle") elif(a!=b and a!=c and
b!=c):

    print("That's", "a", "scalene
triangle") else:

    print("That's", "a", "isosceles
triangle")
```

Ex. No. : 3.2 Vowel or Consonant

Program:

```
x=input()

if(x=='y'):

    print("Sometimes it's a vowel... Sometimes it's a consonant.")

elif(x=='a' or x=='e' or x=='i' or x=='o' or x=='u'):

    print("It's a vowel.")

else:

    print("It's a consonant.")
```

Ex. No. : 3.3 Electricity Bill

Progra m

```
a=float(input())

if(a<200):

    b=a*1.20

    if(b<=100):

        b=100

    print(format(b,".2f"))

else:

    print(format(b,".2f"))

elif(a>=200 and a<400):

    c=a*1.50

    if(c>=400):

        print(format(c*0.15+c,".2f"))

    else:

        print(format(c,".2f"))

elif(a>=400 and a<600):

    d=a*1.80

    print(format(d*0.15+d,".2f"))

elif(a>600):

    e=a*2.00

    print(format(e*0.15+e,".2f"))
```

Ex. No. : 3.4 IN/OUT

Program:

```
a=int(input
())
b=int(input
()) c=a//2
if(b>=c):
print("IN")
else:
print("OU
T")
```

Ex. No. : 3.5 Second last digit

Program:

```
a=int(inu
t())
b=abs(a)
if(b>=10
):
c=b//10
d=c%10
print(d)
else:
print(-1)
```

Ex. No. : 3.6 Chinese Zodiac

Program:

```
a=int(input())
b=a%12
if(b==0):
    print(a,"is the year of the
Monkey.") elif(b==1):
    print(a,"is the year of the
Rooster.") elif(b==2):
    print(a,"is the year of the Dog.")
elif(b==3):
    print(a,"is the year of the Pig.")
elif(b==4):
    print(a,"is the year of the Rat.")
elif(b==5):
    print(a,"is the year of the Ox.")
elif(b==6):
    print(a,"is the year of the Tiger.")
elif(b==7):
    print(a,"is the year of the Hare.")
elif(b==8):
    print(a,"is the year of the
Dragon.") elif(b==9):
```

```

    print(a,"is the yaer of the Snake.")

elif(b==10):

    print(a,"is the year of the Horse.")

elif(b==11):

    print(a,"is the year of the Sheep.")

```

Ex. No. : 3.7 Pythagorean triple

Program:

```

a=int(input()) b=int(input()) c=int(input())
if(a*a+b*b==c*c or b*b+c*c==a*a or
c*c+a*a==b*b):

    print("yes"
) else:
    print("no")

```

Ex. No. : 3.8 Leap Year

Program:

```

a=int(input())
b=a% 100
c=a% 400
if(b==0):
if(c==0):

    print(a,"is a leap year.")
else:

    print(a,"is not a leap year.")
elif(a%4==0):

    print(a,"is a leap year.")

```

Ex. No. : 3.9 Month name to days

Program:

```
odd=['January','March','May','July','August','October','Decem  
ber'] even=['April','June','September','November'] a=input()  
if(a=='February'):  
    print("February has 28 or 29 days in  
it.") if a in odd:  
    print(a,"has 31 days in  
it.") if a in even:  
    print(a,"has 30 days in it.")
```

Ex. No. : 3.10 Admission Eligibility

Program:

```
a=int(input()) b=int(input())  
c=int(input()) if(a>=65 and  
b>=55 and c>=50):  
    print("The candidate is  
eligible") elif(a+b+c>=180):  
    print("The candidate is eligible")  
else:    print("The candidate is not  
eligible")
```