

In [1]:

```
num = int(input("enter variable "))
if num < 50:
    print("That's too much")
elif num < 30:
    print("it'll will be struggle,but i can take 'em")
elif num < 10:
    print("i can fight those ninjas")
```

enter variable34
That's too much

In [2]:

```
num = int(input("enter number "))
if num > 0:
    ab_num = num
else:
    ab_num = num * -1
print ("Absolute value of number is ",ab_num)
```

enter number 23
Absolute value of number is 23

In [11]:

```
str1 = input("enter string1 ")
str2 = input("enter string2 ")
if(str1 > str2):
    print(str1," ",str2)
else:
    print(str1," ",str2)
```

enter string1 dhanya
enter string2 pranavi
dhanya pranavi

In [6]:

```
x = int(input("Enter a number"))
y = int(input("Enter a number"))
operator = input("enter operation that need to be done ")
if operator == '+':
    result = x + y
elif operator == '-':
    result = x - y
elif operator == '*':
    result = x * y
else :
    result = x / y
print(" Result is :",result)
```

Enter a number34
Enter a number34
enter operation that need to be done +
Result is : 68

In [1]:

```
mark = int(input("Enter marks out of 5 "))
if(mark == 5):
    print("grade A")
elif(mark > 4) :
    print("grade B")
elif(mark > 3):
    print("grade c")
elif(mark > 2):
    print("grade D")
else :
    print("grade F")
```

Enter marks out of 5 4
grade c

In [3]:

```
mark = int(input("enter marks"))
if(mark <100 & mark >80):
    print('Grade A')
elif(mark < 79 & mark > 70):
    print('Grade B')
elif(mark <69 & mark >60):
    print('Grade C')
elif(mark <59 & mark >50):
    print('Grade D')
else:
    print("Grade F")
```

enter marks23
Grade F

In [10]:

```
weight = int(input("Enter weight in pounds : "))
height = int(input("Enter height in inches : "))
bmi =int( (weight * 720)/(height*height))

if(bmi >= 19 & bmi <= 25):
    print("healthy")
elif(bmi > 25):
    print("above BMI")
else:
    print("Below BMI")
```

Enter weight in pounds : 2324
Enter height in inches : 23
healthy

In [5]:

```
letter = input("Enter an alphabet ")

if(letter == 'a' or letter == 'b' or letter == 'c' or letter == 'A' or letter == 'B' or letter == 'C' or letter == 'D' or letter == 'E' or letter == 'F' or letter == 'G' or letter == 'H' or letter == 'I' or letter == 'J' or letter == 'K' or letter == 'L' or letter == 'M' or letter == 'N' or letter == 'O' or letter == 'P' or letter == 'Q' or letter == 'R' or letter == 'S' or letter == 'T' or letter == 'U' or letter == 'V' or letter == 'W' or letter == 'X' or letter == 'Y' or letter == 'Z'):
    print("2")
elif(letter == 'd' or letter == 'e' or letter == 'f' or letter == 'D' or letter == 'E' or letter == 'F' or letter == 'G' or letter == 'H' or letter == 'I' or letter == 'J' or letter == 'K' or letter == 'L' or letter == 'M' or letter == 'N' or letter == 'O' or letter == 'P' or letter == 'Q' or letter == 'R' or letter == 'S' or letter == 'T' or letter == 'U' or letter == 'V' or letter == 'W' or letter == 'X' or letter == 'Y' or letter == 'Z'):
    print("3")
elif (letter == 'g' or letter == 'h' or letter == 'i' or letter == 'G' or letter == 'H' or letter == 'I' or letter == 'J' or letter == 'K' or letter == 'L' or letter == 'M' or letter == 'N' or letter == 'O' or letter == 'P' or letter == 'Q' or letter == 'R' or letter == 'S' or letter == 'T' or letter == 'U' or letter == 'V' or letter == 'W' or letter == 'X' or letter == 'Y' or letter == 'Z'):
    print("4")
elif (letter == 'j' or letter == 'k' or letter == 'l' or letter == 'J' or letter == 'K' or letter == 'L' or letter == 'M' or letter == 'N' or letter == 'O' or letter == 'P' or letter == 'Q' or letter == 'R' or letter == 'S' or letter == 'T' or letter == 'U' or letter == 'V' or letter == 'W' or letter == 'X' or letter == 'Y' or letter == 'Z'):
    print("5")
elif (letter == 'm' or letter == 'n' or letter == 'o' or letter == 'N' or letter == 'M' or letter == 'O' or letter == 'P' or letter == 'Q' or letter == 'R' or letter == 'S' or letter == 'T' or letter == 'U' or letter == 'V' or letter == 'W' or letter == 'X' or letter == 'Y' or letter == 'Z'):
    print("6")
elif (letter == 'p' or letter == 'q' or letter == 'r' or letter == 's' or letter == 'P' or letter == 'Q' or letter == 'R' or letter == 'S' or letter == 'T' or letter == 'U' or letter == 'V' or letter == 'W' or letter == 'X' or letter == 'Y' or letter == 'Z'):
    print("7")
elif (letter == 'v' or letter == 't' or letter == 'u' or letter == 'T' or letter == 'U' or letter == 'V' or letter == 'W' or letter == 'X' or letter == 'Y' or letter == 'Z'):
    print("8")
else:
    print("9")
```

Enter a number G
4

In [8]:

```
letter = input("Enter an alphabet ")
if(letter == 'a' or letter == 'e' or letter == 'i' or letter == 'o' or letter == 'u' or letter == 'A' or letter == 'E' or letter == 'I' or letter == 'O' or letter == 'U'):
    print("Entered alphabet is vowel")
else:
    print("Entered alphabet is consonant")
```

Enter an alphabet t
Entered alphabet is consonant

In [12]:

```
num = int(input(" enter a number"))
first_digit = num % 10
print(first_digit)
num = num // 10
middle_digit = num % 10
print(middle_digit)
num = num // 10
last_digit = num % 10
print(last_digit)
if(middle_digit == first_digit + last_digit):
    print("middle_digit = first_digit + last_digit")
else:
    print("middle_digit != first_digit + last_digit")
```

```
enter a number781
1
8
7
middle_digit = first_digit + last_digit
```

In [16]:

```
speed = int(input("Enter the speed : "))
if(speed < 90):
    print("legal speed")
    limit = 0
    penalty = 0
else:
    print("illegal speed")
    limit = speed - 90
    penalty = 2000
fine = limit * 500 + 5000 +penalty
print("total : ",fine)
```

```
Enter the speed : 123
illegal speed
total : 23500
```

In [15]:

```
year = int(input("Enter the year "))
if (year % 400 != 0 ):
    print(" non leap year")
elif(year % 4 == 0):
    print("leap year")
else:
    print("Non leap year")
```

```
Enter the year 1800
non leap year
```

In [4]:

```
w_p1 = int(input("enter weight of package1 "))
price_p1 = int(input("enter price"))
w_p2 = int(input("enter weight of package2 "))
price_p2 = int(input("enter price"))
gw_p1 = w_p1 // price_p1
gw_p2 = w_p2 // price_p2

if(gw_p1 > gw_p2):
    print("Package1 is better")
elif(gw_p1 < gw_p2):
    print("package2 is better")
else:
    print("Both are same")
```

```
enter weight of package1 123
enter price10
enter weight of package2 123
enter price56
Package1 is better
```

In [6]:

```
price = int(input("enter the price in baht "))
if(price <= 100):
    discount = 10
    final_price = price - price * 0.1
else:
    discount = 20
    final_price = price - price * 0.2
print("discount = ",discount,"%")
print("final price =", final_price)
```

```
enter the price in baht 700
discount = 20 %
final price = 560.0
```

In [9]:

```
num = int(input("enter a number :"))
if(num == 1):
    print("january")
elif(num == 2):
    print("february")
elif(num == 3):
    print("march")
elif(num == 4):
    print("april")
elif(num == 5):
    print("May")
elif(num == 6):
    print("June")
elif(num == 7):
    print("july")
elif(num == 8):
    print("august")
elif(num == 9):
    print("september")
elif(num == 10):
    print("october")
elif(num == 11):
    print("november")
elif(num == 12):
    print("december")
else:
    print()
```

enter a number :6
June

In [12]:

```
a = int(input("enter side of triangle : "))
b = int(input("enter side of triangle : "))
c = int(input("enter side of triangle : "))
if(a == b and b == c):
    print("Equilateral triangle")
else:
    print("Non equilateral triangle")
```

enter side of triangle : 6
enter side of triangle : 6
enter side of triangle : 6
Equilateral triangle

In [1]:

```
a = int(input("enter side of triangle : "))
b = int(input("enter side of triangle : "))
c = int(input("enter side of triangle : "))
if(a*a + b*b == c*c):
    print("Right angled triangle")
else:
    print("Not Right angled triangle")
```

```
enter side of triangle : 3
enter side of triangle : 4
enter side of triangle : 5
Right angled triangle
```

In [4]:

```
gender = input("Enter the Gender(m/f) : ")
age = int(input("Enter age :"))
if((age <= 18 and age >= 12) and (gender == "M" or gender == "m")):
    print("allowed")
else:
    print("Not allowed")
```

```
Enter the Gender(m/f) : m
Enter age :13
allowed
```

In [3]:

```
size = int(input("size of the tank"))
petrol = int(input("percentage full"))
kmpl = int(input("km per liter"))
km = size * petrol/100 * kmpl
print("you can go another level ", km, "km")
if(km >= 200):
    print("the next station is 200 km away you can wait for the next station")
else:
    print("the next gas station is 200 km away get gas now!")
```

```
size of the tank60
percentage full40
km per liter10
you can go another level 240.0 km
the next station is 200 km away you can wait for the next station
```

In [6]:

```
date = int(input("Enter date : "))
month = int(input("Enter month :"))
year = int(input("Enter year : "))
today_date = int(input("Enter today's date : "))
today_month = int(input("Enter today's month : "))
today_year = int(input("Enter today's year : "))
if( today_date < date):
    today_date = today_date +31
    today_month = today_month - 1
if( today_month < month):
    today_month = today_month + 12
    today_year -= 1
print("your age is : ",today_year - year," years",today_month - month ," month ", today_date - date," days")
```

```
Enter date : 12
Enter month :12
Enter year : 2000
Enter today's date : 12
Enter today's month : 12
Enter today's year : 2021
your age is : 21 years 0 month 0 days
```

In []: