```
vowels = ("a", "e", "i", "o", "u", "A",
"E", "I", "O", "U")
alphabet = input("Enter the alphabet: ")
if alphabet in vowels:
    print("Alphabet is a Vowel. ")
else:
    print("Alphabet is a consonant. ")
```

OUTPUT:

```
Enter the alphabet: I
Alphabet is a Vowel.

Process finished with exit code 0

Enter the alphabet: a
Alphabet is a Vowel.

Process finished with exit code 0
```

```
print("Enter the length of the three
sides of a triangle ")
x = int(input("x: "))
y = int(input("y: "))
z = int(input("z: "))
if x == y and y == z:
    print("Equilateral Triangle ")
elif x == y or y == z:
    print("Isosceles triangle ")
else:
    print("Scalene triangle ")
```

OUTPUT:

```
Enter the length of the three sides of a triangle
x: 12
y: 13
z: 14
Scalene triangle
```

```
Enter the length of the three sides of a triangle
x: 12
y: 13
z: 13
Isosceles triangle
```

```
x: 12
y: 12
z: 12
Equilateral Triangle

Process finished with exit code 0
```

```
def multiplication(x, y):
    return x*y

def addition(x, y):
    return x+y

def subtraction(x, y):
    return x-y

def division(x, y):
    return x/y
```

```
num1 = int(input("Enter number : "))
num2 = int(input("Enter second number :
"))
print("For Addition press 1")
print("For subtraction
print("For multiplication press 3")
print("For division
                           press 4")
choice = int(input("operation :"))
if choice == 1:
   print("Addition", addition(num1,
num2))
elif choice == 2:
   print("Subtraction",
subtraction(num1, num2))
elif choice == 3:
   print("Multiplication",
multiplication(num1, num2))
elif choice == 4:
   print("Division", division(num1,
num2))
```

OUTPUT

```
Enter number : 10
Enter second number : 15
For Addition
                  press 1
For subtraction press 2
For multiplication press 3
For division
            press 4
operation :1
Addition 25
Enter number : 25
Enter second number : 10
For Addition press 1
For subtraction press 2
For multiplication press 3
For division
                   press 4
operation :3
Multiplication 250
```

```
def largest_odd(x, y):
    if x % 2 != 0 and x > y:
        print("x=", x, "is the largest
```

```
odd function ")
    elif x % 2 != 0 and y > x:
       print("y=", y, " is the largest
    elif x % 2 == 0 and y % 2 != 0:
       print("X is the greatest odd as y
    elif y % 2 == 0 and x % 2 != 0:
        print("Y is greatest odd as X is
even")
    else:
        print("Both of them is odd")
    return x, y
print("Enter first number")
x = int(input("X: "))
print("Enter second number")
y = int(input("Y: "))
largest odd(x, y)
```

Output

```
Enter first number

X: 20

Enter second number

Y: 11

X is the greatest odd as y is even
```

```
Enter first number

X: 20
Enter second number

Y: 10
Both of them are even
```

```
Enter first number

X: 7

Enter second number

Y: 11

y= 11 is the largest odd function
```