1) Write a Python program that calculates the area of a rectangle. Prompt the user to enter the length and width of the rectangle, and use the appropriate operators and conditional statements to calculate and display the area.

In [66]:
```
length=int(input("Enter The length = "))
width=int(input("Enter the width "))

if length>0 and width>0:
    area=length*width
print("Area Of Rectangle = ",area)
```

```
Enter The length = 20
Enter the width 50
Area Of Rectangle =  1000
```

2) Write a Python program that takes two numbers as input from the user and displays their sum, difference, product, and quotient using appropriate operators.

In [75]:
```
a=int(input("enter the value = "))
b= int(input("enter the value = "))
operator =input("select the operator = ")
if operator =='+':
    print("sum of a+b = ",a+b)
elif operator =='-':
    print("substraction of a-b = ",a-b)
elif operator =='*':
    print("multiplication of a*b = ",a*b)
elif operator =='/':
    print("division of a/b = ",a/b)
else:
    print("error")
```

```
enter the value = 10
enter the value = 5
select the operator = *
multiplication of a*b =  50
```

3) Create a program that asks the user to enter three numbers and determines the largest among them. Use conditional statements and comparison operators to compare the numbers and display the result.

In [70]:
```
x=int(input("Enter the Value = : "))
y=int(input("Enter the Value = : "))
z=int(input("Enter the Value = : "))

if x>y and x>z:
    print("x is the Largest Number")
elif y>a and y>z:
    print("Y is the largest number")
else:
    print("Z is the largest Number")
```

```
Enter the Value = : 10
Enter the Value = : 100
Enter the Value = : 50
Y is the largest number
```

In [ ]:
```

```