

In [1]:

```
#program to print hello world
```

```
print("hello desai devanshi")  
print("180630107012")
```

hello desai devanshi

180630107012

In [2]:

```
#program to add two numbers
```

```
a=7  
b=2  
sum=a+b  
print(sum)  
print("180630107012")  
print("desai devanshi")
```

9

180630107012

desai devanshi

In [3]:

```
#program to find square root of number
```

```
num= float(input("enter a number: "))  
  
num_sqrt=num ** 0.5  
print("the square root of %0.3f is %0.3f"%(num,num_sqrt))  
print("180630107012")
```

enter a number: 6

the square root of 6.000 is 2.449

180630107012

In [4]:

```
#program to find area of triangle

a=float(input("enter first side: "))
b=float(input("enter second side: "))
c=float(input("enter third side: "))

s=(a + b + c) / 2

#calculate the area
area=(s*(s-a)*(s-b)*(s-c)) ** 0.5

print("the area of triangle is %0.2f" %area)

print("180630107012")
print("desai devanshi")
```

```
enter first side: 2
enter second side: 3
enter third side: 4
the area of triangle is 2.90
180630107012
desai devanshi
```

In [5]:

```
#program to swap two variables
x = input('Enter value of x: ')
y = input('Enter value of y: ')
temp = x
x = y
y = temp
print('The value of x after swapping: {}'.format(x))
print('The value of y after swapping: {}'.format(y))
print("180630107012")
print("desai devanshi")
```

```
Enter value of x: 10
Enter value of y: 20
The value of x after swapping: 20
The value of y after swapping: 10
180630107012
desai devanshi
```

In [6]:

```
# Program to generate a random number between 0 and 9
# importing the random module
import random
print(random.randint(0,9))
print("180630107012")
print("desai devanshi")
```

```
3
180630107012
desai devanshi
```

In [7]:

```
#program to solve quadratic equation
import cmath
a = float(input('Enter : '))
b = float(input('Enter : '))
c = float(input('Enter : '))
# calculate the discriminant
d = (b**2) - (4*a*c)
# find two solutions
sol1 = (-b-cmath.sqrt(d))/(2*a)
sol2 = (-b+cmath.sqrt(d))/(2*a)
print('The solution are {0} and {1}'.format(sol1,sol2))

print("180630107012")
print("desai devanshi")
```

Enter : 1
Enter : 3
Enter : 5
The solution are (-1.5-1.6583123951777j) and (-1.5+1.6583123951777j)
180630107012
desai devanshi

In [9]:

```
#program to convert kilometers into miles
kilometers = float(input("Enter value in kilometers: "))
conv_fac = 0.621371
miles = kilometers * conv_fac
print('%0.2f kilometers is equal to %0.2f miles' %(kilometers,miles))

print("180630107012")
print("desai devanshi")
```

Enter value in kilometers: 500
500.00 kilometers is equal to 310.69 miles
180630107012
desai devanshi

In [10]:

```
#Program to convert temperature in celsius to fahrenheit
celsius = float(input("Enter value in celsius: "))
fahrenheit = (celsius * 1.8) + 32
print('%0.1f degree Celsius is equal to %0.1f degree Fahrenheit' %(celsius,fahrenheit))

print("180630107012")
print("desai devanshi")
```

Enter value in celsius: 28
28.0 degree Celsius is equal to 82.4 degree Fahrenheit
180630107012
desai devanshi

In []: