

Assignment -1

Q 1 the arithmetic operations are performed by calculator where we can perform addition, subtraction, multiplication and division. Perform the basic arithmetic operations using input function i.e.

- Addition
- Subtraction
- Multiplication
- Division

Q2. Write a program to find the area of a triangle:

Mathematical formula:

Area of a triangle = $(s*(s-a)*(s-b)*(s-c))-1/2$

Here s is the semi-perimeter and a, b and c are three sides of the triangle.

Q 3. Write a program to swap two variables.

- a. Using 3rd variable
- b. Without 3rd variable

Q4. Write a program to generate a random number.

Q5. Write a program to convert kilometres to miles:

Kilometer:

The kilometre is a unit of length in the metric system. It is equivalent to 1000 meters.

Miles:

Mile is also the unit of length. It is equal to 1760 yards.

Conversion formula:

1 kilometre is equal to 0.62137 miles.

Q6. Write a program to convert Celsius to Fahrenheit

Celsius:

Celsius is a unit of measurement for temperature. It is also known as centigrade. It is a SI derived unit used by most of the countries worldwide. It is named after the Swedish astronomer Anders Celsius.

Fahrenheit:

Fahrenheit is also a temperature scale. It is named on Polish-born German physicist Daniel Gabriel Fahrenheit. It uses degree Fahrenheit as a unit for temperature.

Conversion formula: :- $T(^{\circ}\text{F}) = T(^{\circ}\text{C}) \times 9/5 + 32$

Q7. Write a user defined program to display calendar

Hint

import calendar

And then apply the syntax

(calendar.month(yy,mm))