

## 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:**

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

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 3<sup>rd</sup> variable
- b. Without 3<sup>rd</sup> 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))`

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