Function In JavaScript

1. Addition of 2 numbers.

```
function addition (a,b) {
   let ans = a + b;
   return ans;
}
let a = Number(prompt("Enter first number : "));
let b = Number(prompt("Enter second number : "));
let add = addition(a,b);
console.log(`Addition of ${a} and ${b} = `, add);
```

Output:

Addition of 20 and 30 = 50

2. Multiplication of 3 numbers.

```
function multiplication (a,b,c) {
   let ans = a * b* c;
   return ans;
}
let a = Number(prompt("Enter first number : "));
let b = Number(prompt("Enter second number : "));
let c = Number(prompt("Enter third number : "));
let mul = multiplication(a,b,c);
console.log(`Multiplication of ${a}, ${b} and ${c} = `, mul);
```

Output:

Multiplication of 5, 6 and 8 = 240

3. Calculate area of circle.

```
function sq(r) {
   return r**2;
}
function areaOfCircle(r) {
   let ans = Math.PI.toFixed(2) * sq(r);
   return ans;
}
let r = Number(prompt("Enter radius : "));
let area = areaOfCircle(r);
console.log("Radius : ", r);
console.log("Area of circle = ", area);
```

Output:

Radius : 4
Area of circle = 50.24

4. Calculate Kinetic energy.

```
function sq(v) {
   return v**2;
}
function kineticEnergy(m,v) {
   let ans = 0.5 * m * sq(v);
   return ans;
}
let m = Number(prompt("Enter mass : "));
let v = Number(prompt("Enter velocity : "));
let ke = kineticEnergy(m,v);
console.log("Mass : ",m);
console.log("Velocity : ",v);
console.log("Kinetic Energy = ", ke);
```

Output:

```
Mass : 5
Velocity : 3
Kinetic Energy = 22.5
```

5. Calculate Arithmetic mean.

```
function mean(a,b) {
   let ans = (a + b) / 2;
   return ans;
}
let a = Number(prompt("Enter first number : "));
let b = Number(prompt("Enter second number : "));
let am = mean(a,b);
console.log("a = ",a);
console.log("b = ",b);
console.log("Arithmetic Mean = ", am);
```

Output:

```
a = 30
b = 10
Arithmetic Mean = 20
```

6. Calculate Perimeter of ring.

```
function perimeterOfRing(a,b) {
   let ans = 2 * Math.PI.toFixed(2) * (a + b);
   return ans;
}
let a = Number(prompt("Enter first number : "));
let b = Number(prompt("Enter second number : "));
let perimeter = perimeterOfRing(a,b);
console.log("Perimeter Of Ring = ", perimeter);
```

Output:

Perimeter Of Ring = 87.92

7. Calculate Surface area of cuboid.

```
function sareaOfCuboid(l,b,h) {
   let ans = 2 * ((l * b) + (l * h) + (b * h));
   return ans;
}
let l = Number(prompt("Enter length : "));
let b = Number(prompt("Enter breadth : "));
let h = Number(prompt("Enter height : "));
let cuboid = sareaOfCuboid(l,b,h);
console.log("Length = ",l);
console.log("Breadth = ",b);
console.log("Height = ",h);
console.log("Surface area of cuboid = ", cuboid);
```

Output:

Length = 5
Breadth = 4
Height = 6
Surface area of cuboid = 148

8. Convert temperature Fahrenheit into Celsius.

```
function temperature(f) {
   let ans = (9/5) * (f+ - 32);
   return ans;
}
let f = Number(prompt("Enter temp in Fahrenheit : "));
let temp = temperature(f);
console.log("Temp in Fahrenheit : ",f);
console.log("Temperature in Celsius :", temp.toFixed(2));
```

Output:

Temp in Fahrenheit : 53
Temperature in Celsius : 37.80

9. Convert Hours, Minutes and Seconds into Seconds.

```
function time(h,m,s) {
   let sec = (h * 3600) + (m * 60) + s;
   return sec;
}
let h = Number(prompt("Enter Hours : "));
let m = Number(prompt("Enter Minutes : "));
let s = Number(prompt("Enter Seconds : "));
let second = time(h,m,s);
console.log("Hours : ",h);
console.log("Minutes : ",m);
console.log("Seconds : ",s);
console.log("Time in seconds : ", second);
```

Output:

```
Hours : 2
Minutes : 10
Seconds : 37
Time in seconds : 7837
```

10. Calculate Square root.

```
function squareRoot(a) {
   let ans = Math.sqrt(a);
   return ans;
}
let a = Number(prompt("Enter Number : "));
let root = squareRoot(a);
console.log(`Square Root of ${a} = `, root);
```

Output:

```
Square Root of 100 = 10
```