# GUVI: Zen Class — Variables Arrays & Objects

# (Task 2: Simple Programs todo for Operators)

1. **Square of a number**

var a;

var p;

p=a\*a;

console.log (p);

1. **Swapping 2 numbers**

var a,b;

var t;

console.log ("a="+a,"b="+b);

t=a;

a=b;

b=t;

console.log ("a="+a,"b="+b);

1. **Addition of 3 numbers**

var a,b,c;

var s;

s=a+b+c;

console.log (s);

1. **Celsius to Fahrenheit conversion**

var tc;

var tf;

tf=(tc\*9/5)+32;

console.log (tf);

1. **Meter to miles**

var meter,miles;

miles=meter\*0.000621;

console.log (miles);

1. **Pounds to kg**

var kg,pounds;

kg=pounds\*0.454;

console.log (kg);

1. **Calculate Batting Average**

var total\_runs, no\_of\_matches;

var avg;

avg=total\_runs/no\_of\_matches;

console.log (avg);

1. **Calculate five test scores and print their average**

var s1,s2,s3,s4,s5;

var avg;

avg=(s1+s2+s3+s4+s5)/5;

console.log (avg);

1. **Power of any number x ^ y.**

var x,y;

var p=1;

while (y>0)

p=p\*x;

console.log (p);

1. **Calculate Simple Interest**

var p,r,t,si;

si=(p\*r\*t)/100;

console.log (si);

1. **Calculate area of an equilateral triangle**

var side;

var area;

area=(math.sqrt(3)/4)\*side\*side;

console.log (area);

1. **Area Of Isosceles Triangle**

var a,b;

var area,h;

h=math.sqrt((a\*a-b\*b)/4);

area=h\*b/2;

console.log (area);

1. **Volume Of Sphere**

var radius;

var vol;

vol=(4\*3.14\*radius\*radius\*radius)/3;

console.log (vol);

1. **Volume Of Prism**

var area\_of\_base, height;

var vol;

vol=area\_of\_base\*height;

console.log (vol);

1. **Find area of a triangle.**

var h,b;

var area;

area=h\*b/2;

console.log (area);

1. **Give the Actual cost and Sold cost, Calculate Discount Of Product**

var ac\_cost,sold\_cost;

var discout;

discount=((sold\_cost-ac\_cost)/ac\_cost)\*100;

console.log (discount);

1. **Given their radius of a circle and find its diameter, circumference and area.**

var radius;

var circum, diameter;

diameter=2\*radius;

circum=2\*3.14\*radius;

console.log ("diameter="+diameter);

console.log ("circumference="+circum);

1. **Given two numbers and perform all arithmetic operations.**

var a,b;

var sum,diff,mul,div;

sum=a+b;

diff=a-b;

mul=a\*b;

div=a/b;

console.log ("addition="+sum);

console.log ("subtraction="+diff);

console.log ("multiplication="+mul;

console.log ("division="+div);

1. **Display the asterisk pattern as shown below (No loop needed):  
   \*\*\*\*\*  
   \*\*\*\*\*  
   \*\*\*\*\*  
   \*\*\*\*\*  
   \*\*\*\*\***

var star="\*\*\*\*\*";

console.log (star);

console.log (star);

console.log (star);

console.log (star);

console.log (star);

1. **Calculate electricity bill?  
   For example, a consumer consumes 100 watts per hour daily for one month. Calculate the total energy bill of that consumer if per unit rate is 10?**

var wph;

var consume,bill;

consume=100\*24\*30;

bill=(consume/1000)\*10;

console.log (bill);

1. **Program To Calculate CGPA**

var sum\_of\_all\_subjects, no\_of\_subs;

var cgpa;

cgpa=(sum\_of\_all\_subjects/no\_of\_matches)\*10;

console.log (cgpa);