<https://medium.com/@reach2arunprakash/www-guvi-io-zen-d395deec1373>

**Task 1: Simple Programs to do for variables**

1. **Declare four variables without assigning values and print them in console**

var a;

var b;

var c;

var d;

console.log(a);

console.log(b);

console.log(c);

console.log(d);

##### Output:

undefined

undefined

undefined

undefined

2**.How to get value of the variable myvar as output**

var myvar = 1;

console.log(myvar);

##### Output:

1

3**.Declare variables to store your first name, last name, marital status, country and age in multiple lines**

var firstName = "santhiya";

var lastName = "bharathi";

var marital\_status = "unmarried";

var country = "india";

var age = 22;

console.log(firstName);

console.log(lastName);

console.log(marital\_status);

console.log(country);

console.log(age);

##### Output:

santhiya

bharathi

unmarried

india

22

4. **Declare variables to store your first name, last name, marital status, country and age in a single line.**

var firstName = "santhiya", lastName = "bharathi", marital\_status = "unmarried", country = "india", age = 22;

console.log(firstName, lastName, marital\_status, country, age);

##### Output:

santhiya bharathi unmarried india 22

5**.Declare variables and assign string, boolean, undefined and null data types**

var name = "san",

age = 22,

b = null;

console.log(name,age,b);

##### Output:

san 22 null

6.**Convert the string to integer**

* parseInt()
* Number()
* Plus sign(+)

var a = 4;

console.log(parseInt(a));

console.log(Number(a));

console.log(+a);

##### Output:

4

4

4

**7. Write 6 statement which provide truthy & falsey values.**

1.var value = 4;

if(value){

console.log(true);

}else{

console.log(false);

}

##### Output:

true

2.var value = "name";

if(value){

console.log(true);

}else{

console.log(false);

}

##### Output:

true

3.var value = "";

if(value){

console.log(true);

}else{

console.log(false);

}

##### Output:

false

4.var value = 0;

if(value){

console.log(true);

}else{

console.log(false);

}

##### Output:

false

5. var value = null;

if(value){

console.log(true);

}else{

console.log(false);

}

##### Output:

false

6. var value = undefined;

if(value){

console.log(true);

}else{

console.log(false);

}

##### Output:

false

**Task 2: Simple Programs todo for Operators**

1. **Square of a number**

var a = 2;

console.log(Math.pow(a,2));

##### Output:

4

**2.Swapping 2 numbers**

var a = 4;

var b = 2;

[a,b]=[b,a];

console.log(a);

console.log(b);

##### Output:

2

4

**3.Addition of 3 numbers**

var a = 1;

var b = 2;

var c = 3;

var d= a + b+ c;

console.log(d);

##### Output:

6

**4. Celsius to Fahrenheit conversion**

let temp = 60;

let fahrenheit = (temp \* (9/5) + 32);

console.log(fahrenheit);

##### Output:

140

**5. Meter to miles**

var meter = 12700;

var miles = meter \* 0.000621371;

console.log(miles);

##### Output:

7.8914117

**6. Pounds to kg**

var pounds = 5;

var kg = pounds \* 0.453592;

console.log(kg);

##### Output:

2.26796

**7.Calculate Batting Average**

var runs= 10000;

var matches = 250;

var not\_out = 50;

var dismissed = matches- not\_out;

var batting\_average = runs/dismissed;

console.log(batting\_average);

##### Output:

50

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

var a = 50,

b = 45,

c = 60,

d = 70,

e = 90;

var sum = a + b + c + d + e;

var average = sum/5;

console.log(average);

##### Output:

63

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

var a =3,

b=2;

console.log(Math.pow(a,b));

##### Output:

9

**10. Calculate Simple Interest**

var p = 1000;

var r = 5;

var t = 1;

var simple\_interest = (p\*r\*t)/100;

console.log(simple\_interest);

##### Output:

50

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

var a = 5;

var area = (1.73\*a\*a)/4;

console.log(area);

##### Output:

10.8125

**12.Area Of Isosceles Triangle**

var a = 12;

var b = 17

var area = (a\*b)/2

console.log(area);

##### Output:

102

**13. Volume Of Sphere**

var r = 48

var volume = (4/3)\*(Math.PI)\* (r\*r\*r);

console.log(volume);

##### Output:

463246.6863277365

**14.Volume Of Prism**

var base\_area = 10;

var length = 5;

var volume = base\_area\*length;

console.log(volume);

##### Output:

50

**15. Find area of a triangle.**

var height = 10;

var base = 5;

var volume = (height\*base)/2;

console.log(volume);

##### Output:

25

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

var actual\_cost = 200;

var sold\_cost = 50;

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

console.log(discount);

##### Output:

75

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

var radius = 20;

var diameter = 2\*radius;

var circumference = 2\*Math.PI\*radius;

var area = Math.PI\*radius\*radius;

console.log(diameter);

console.log(circumference);

console.log(area);

##### Output:

40

125.66370614359172

1256.6370614359173

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

var a= 4;

var b = 2;

console.log(a+b);

console.log(a-b);

console.log(a\*b);

console.log(a/b);

console.log(a%b);

console.log(a\*\*b);

##### Output:

6

2

8

2

0

16

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

console.log("\*\*\*\*\*");

console.log("\*\*\*\*\*");

console.log("\*\*\*\*\*");

console.log("\*\*\*\*\*");

console.log("\*\*\*\*\*");

##### Output:

\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

**20. 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 consumes = 100;

var bill = consumes\*24\*30;

var cost = bill\*10;

console.log(cost);

##### Output:

720000

**21. Program To Calculate CGPA**

var percentage = 90;

console.log(percentage/9.5);

##### Output:

9.473684210526315