1)task1

Output is shown after “//”

1) var a,b,c,d;

console.log(a,b,c,d);//undefined

2)How to get value of the variable myvar as output

var myvar= 1;

console.log("myvar:",myvar);

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

var firstname=”kausalya”;

var lastname=”k”;

var maritalstatus=”single”;

var country=”India”;

var age=”25”;

console.log(firstname);//kausalya

console.log(lastname);//k

console.log(maritalstatus)//single

console.log(country);//India

console.log(age);//25

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

var firstname=”kausalya”, lastname=”k”, maritalstatus=”single”,country=”India”, age=”25”;

console.log(firstname,lastname,maritalstatus,country,age);//kausalya k single India 25

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

Let a =”true”;

Let b=true;

Let c;

Let d=null

console.log(a,typeof (a));//true string

console.log(b,typeof(b));//true boolean

console.log(c,typeof(c));//undefined

console.log(d,typeof(d));//undefined

6)Convert the string to integer:

var a=Number(“1000”);

console.log(a,typeof((a));//1000 number

var b=parseInt(“1000”);

console.log(b,typeof((b));//1000 number

var c=+(“1000”);

console.log(c,typeof((c));//1000 number

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

var a=1;//truthy

var b=0;//falsy

var c=”abc”;//truthy

var d=””;//falsy

var e=NaN;//falsy

var f=null;//falsy

=>Simple program:

1)square of a number

function square(n){

return n\*n;

}

console.log(square(2));//4

2)Swapping of two num

function swap(a,b){

a=b;b=c;c=a;

}

console.log(swap(2,3));//3 2

3)addition of 3 num

function add(a,b,c){

return a+b+c;

}

console.log(add(2,3,4))//9

4) celcius to farenheit

function conversion(a){

let b=a\*(9/5);

return b+32;

}

console.log(conversion(5));//41

5)Meter to miles

function miles(n){

return n/1609;

}console.log(miles(3));

6)Pounds to kg

function kg(n){

return n/2.205;

}console.log(kg(3));

7)Calculate Batting Average

function batavg(arr){

let n=arr.length;

let sum=0;

for(let i in arr){

sum+=arr[i]

}

return sum/n;

}

console.log(batavg(2,3,4));

8)Calculate five test scores and print their average

function testavg(arr){

let n=arr.length;

let sum=0;

for(let i in arr){

sum+=arr[i]

}

return sum/n;

}

console.log(batavg(2,3,4,5,6));

9)Power of any number x ^ y

function pow(a,b){

return a^b;

}

console.log(pow(2,3));

10)Calculate Simple Interest

function sint(p,n,r){

return p\*n\*r/100;

}

console.log(sint(3,2,4);

11)Calculate area of an equilateral triangle

function area(a){

let ab=sqrt(3);

let bc=Math.pow(a,2);

return ab\*bc/4;

}

console.log(area(2));

12)Area Of Isosceles Triangle

function iso(b,h){

return b\*h/2;

}

console.log(iso(2,3));

13)Volume Of Sphere

function sphere(r){

Let cube=Math.pow(r,3);

return (4\*Math.PI\*cube)/3;

}

console.log(sphere(2));

14)Volume Of Prism

function prism(b,h){

return b\*h;

}

console.log(prism(2,3));

15)Find area of a triangle.

function tri(b,h){

return b\*h/2;

}

console.log(tri(2,3));

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

function actual(n1,n2){

return n1-n2;

}

console.log(actual(3,2));

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

function circle(r){

let dia=2\*r;

let circum=2\*Math.PI\*r;

let area=Math.PI\*r\*r;

console.log(dia);

console.log(circum);

console.log(area);

}

circle(2);

18)Given two numbers and perform all arithmetic operations.

Function arith(a,b){

let add=a+b;

let sub=a-b;

let mul=a\*b;

let div=a/2;

console.log(add);

console.log(sub);

console.log(mul);

console.log(div);

}

arith(2,4);

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

function pattern(a){

for(var i=0;i<a;i++){

for(var j=0;j<a;j++){

console.log(“\*”);

}

console.log(“/n”);

}

}

pattern(5);

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?

function bill(w,r,t){  
let kwh=(w\*t)/1000;

let perday=kwh\*r;

let permonth=perday\*30;

return permonth;

}

console.log(bill(100,10,1));

21)Program To Calculate CGPA

function cgpa(marks,total){

let perc=(marks/total)\*100;

return perc/9.5;

}

console.log(cgpa(300,600));