Task 1

let arr = [+prompt(`Enter rooms length`, 1),

+prompt(`Enter rooms width`,1),

+prompt(`Enter rooms heigth`,1)];

const sqr = 16;

let num\_Of\_Tips = Math.ceil((arr[0]\*arr[1]\*arr[2])/sqr);

console.log(num\_Of\_Tips);

Task 2

let sand ='Enter the price of the sand type';

let container ='Enter the volume of the container';

let a = +prompt(`${sand} A1`);

let b = +prompt(`${sand} A2`);

let c = +prompt(`${sand} A3`);

let d = +prompt(`${container} В1`);

let e = +prompt(`${container} В2`);

let f = +prompt(`${container} В3`);

let max\_price = Math.max(a, b, c);

let max\_capacity = Math.max(d, e, f);

let lowest\_price = Math.min(a, b, c);

let lowest\_capacity = Math.min(d, e, f);

let middle\_price = (a + b + c - max\_price-lowest\_price);

let middle\_capacity = (d + e + f - max\_capacity - lowest\_capacity);

let bingo = (max\_price \* max\_capacity + lowest\_price \* lowest\_capacity +

middle\_price \* middle\_capacity);

alert(`You'll get ${bingo} dollars`);

Task 3

var ticket = prompt (`Enter ticket number`);

let res = [];

let base = 10;

let currNum = Math.abs(ticket);

console.log( `${ticket}`);

console.log( `${currNum}`);

do {

let ticket = Math.floor(currNum / base);

let diff = currNum - ticket \* base;

res.unshift(diff);

currNum = ticket;

} while (currNum != NaN);

if(res.length!=6 || isNaN(ticket)==true ){

console.log( 'Wrong data');

}

else{

let first\_Sum = res[0] + res[1] + res[2];

let second\_Sum = res[3] + res[4] + res[5];

first\_Sum == second\_Sum ? console.log ('Your ticket is lucky'):

console.log( 'Your ticket is ussual');

}

Task 4

1)

let a = +prompt (`Enter your age`);

switch (true) {

case a>0 && a<=12:

console.log( 'child' );

break;

case a>12 && a<18:

console.log( 'teenager' );

break;

case a>18 &&a<=60:

console.log( 'adult' );

break;

case a>60 &&a<=130:

console.log( 'pensioner' );

break;

default:

console.log( 'Wrong data' );

}

2)

let a = +prompt (`Enter number from 0 to 9 `);

let arr = [")","!","@","#","$","%","^","&","\*","("];

console.log( arr[a] );

/\* Из 3х предложенных вариантов использовал бы switch,

но все-равно было бы больше по объему.\*/

3)

let a = +prompt(`Enter number from 100 to 999 `);

let x = `Ошибка, вы ввели не трехзначное число, повторите еще раз!`;

if(a>=1000 || a<100){

console.log(`${x}`)

}

else{

let first = Math.floor(a/100);

let decade = a%100;

let second = Math.floor(decade/10);

let third = a%10;

if( first == second && second == third){

console.log('All numbers are equal')

}

else if(first == second || first == third || third == second){

console.log('There`re equal numbers ')

}

else{

console.log('There`re no equal numbers')

}

}

4)