Task6

1.a) const countries = [

{ name: "Afghanistan", continent: "Asia" },

{ name: "Bangladesh", continent: "Asia" },

{ name: "China", continent: "Asia" },

{ name: "India", continent: "Asia" },

{ name: "Japan", continent: "Asia" },

{ name: "South Korea", continent: "Asia" },

{ name: "Pakistan", continent: "Asia" },

{ name: "Russia", continent: "Asia" },

{ name: "Sri Lanka", continent: "Asia" },

{ name: "Turkey", continent: "Asia" },

{ name: "Vietnam", continent: "Asia" },

{ name: "Indonesia", continent: "Asia" },

{ name: "Thailand", continent: "Asia" },

{ name: "Philippines", continent: "Asia" },

// Other countries...

];

// Using filter method to get countries from Asia continent

const asiaCountries = countries.filter(country => country.continent === "Asia");

console.log("Countries in Asia:", asiaCountries);

b)const countries = [

{ name: "India", capital: "New Delhi", flag: "🇮🇳" },

{ name: "United States", capital: "Washington, D.C.", flag: "🇺🇸" },

{ name: "United Kingdom", capital: "London", flag: "🇬🇧" },

{ name: "Canada", capital: "Ottawa", flag: "🇨🇦" },

{ name: "Australia", capital: "Canberra", flag: "🇦🇺" },

// Other countries...

];

// Using forEach method to print name, capital, and flag of each country

countries.forEach(country => {

console.log("Name:", country.name);

console.log("Capital:", country.capital);

console.log("Flag:", country.flag);

console.log("--------------------------");

});

d)const countries = [

{ name: "India", population: 1380000000 },

{ name: "China", population: 1440000000 },

{ name: "United States", population: 331000000 },

{ name: "Indonesia", population: 273000000 },

{ name: "Pakistan", population: 220000000 },

{ name: "Brazil", population: 213000000 },

{ name: "Nigeria", population: 206000000 },

{ name: "Bangladesh", population: 165000000 },

{ name: "Russia", population: 146000000 },

{ name: "Mexico", population: 128000000 },

// Other countries...

];

// Using reduce method to calculate total population of countries

const totalPopulation = countries.reduce((total, country) => total + country.population, 0);

console.log("Total population of countries:", totalPopulation);

e)const countries = [

{ name: "India", currency: "Indian Rupee" },

{ name: "United States", currency: "US Dollar" },

{ name: "United Kingdom", currency: "Pound Sterling" },

{ name: "Canada", currency: "Canadian Dollar" },

{ name: "Australia", currency: "Australian Dollar" },

// Other countries...

];

// Using find method to find the country that uses US Dollar as currency

const countryUsingUSD = countries.find(country => country.currency === "US Dollar");

if (countryUsingUSD) {

console.log("Country that uses US Dollar:", countryUsingUSD.name);

} else {

console.log("No country found that uses US Dollar as currency.");

}