C# Junior Engineer

www.gogosys.com

Target :

Develop a smart Siri.

Coding interesting math.

Develop a Website for yourself.

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Ready 2 Software for studying

- Remote Tool
  http://www.gogosys.com/download/SunloginClient10.1.exe

- Development Tool
  http://www.gogosys.com/download/vs_Community.exe

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What can coding do?

▶ 1 plus 1 equal ? 14521 plus 1 equal ?

▶ Traffic Light, How it work?

▶ "hi siri"，Amazon Echo "Alexa"， "ok Google"

▶ https://www.youtube.com/watch?v=tlThdr3O5Qo   Tesla Self-Driving

Can I learn it easily?

- I am smarter than computers.
- Computers just doing few orders.
- Computers faster compute than us.

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Lesson 1
Coding program like the IPhone Siri.

▶ Ask the Siri "Hi, Siri" Siri answer "Yes, I am here. What can I do for you?"

▶ Ask the Siri "What time is it?" Siri answer the right now time.

▶ It will answer your or your family question.

▶ **Learn: How to use "if ()" in C#**

▶ **Homework: Coding 5 questions for Siri And show it for your family.**

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Lesson 2
Siri Remember my store

▶ Tell the Siri some information and ask them.

▶ "hi, Jack, what your fathers' name"

▶ "Siri, what is my dads' name" or "dad name"

▶ "Siri, How many people do our family have"

▶ Learn: save data into variable, IndexOf(): Include something.

▶ **Homework: Tell 5 information to Siri And show it for your family.**

Lesson 3
Coding and Let Siri to do math

▶ 1432+1521435

▶ 21231-321

▶ Input one number and another number

▶ **Learning : How to do math by coding**

▶ * Thinking: what different from numbers and text in C# (Ex. "Hello", 3.1415)

▶ Homework: * multiplication   / division

▶ 243213*9234

▶ 2335/32

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Lesson 4
Solve a math problem from Siri

- Siri give a math problem, then you answer it. Siri will tell "You are right." or "You are wrong"

- 12+25=?

- 25

- You are wrong

- **Learning: How to make random number**

- Random ran = new Random();

- int n = ran.Next(100, 1000);

- Homework: When you answer is wrong, tell the right answer.

- 12+25=?

- 25

- You are wrong, The right answer is 37

Lesson 5
Guess the number

- 1, 4, 7, 10 …..   What is the number of 200th?

- 1, 6, 11,16,21,25,31…..   What is the number of 100th?

- **Learn: How to use "For" in coding**

Lesson 6 Interesting Math

- Math: 8+88+888+8888…..8888888888 = ?

- Math: 2+22+222+2222…..2222222222 = ?

- Math: 3+6+12+24+36+72……. = ?

- Math: 9+98+997+9996+99995+999994……. = ?

- **Learn: How to use "For" in coding**

- **Homework: I want to run for exercise. 1st day run 1mile, 2nd day run 1.2 miles, 3rd day run 1.4miles, 4th day run 1.6miles. How many miles I can run after 15 days?**

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Lesson 7　Pay me salary

▶ If you are boss, I am your new employee working for you. I have 2 options for my salary. Which one will you choice?

▶ 1. Pay me 10000$ per month.

▶ 2. 1st day pay me 0.01$, 2nd day pay me 0.02$, 3rd day give me 0.04$, 4th day pay me 0.08$ …… till 30 days.

▶ How many numbers from 1 to 1000 can be divisible by 13?

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Lesson 8
Hi Siri, What's day of this week

- Siri: Hi, Jack, what's day of this week

- Jack: Monday

- switch (day)

-     {

-         case "monday"

-             Console.WriteLine("It's first school day of this week, today have Math, English and Music courses, Don't be late!");

-             break;

-         case "tuesday"

-             Console.WriteLine("today have Coding and basekitball, Don't forget your sport kits!");

-             break;

-         default:

-             Console.WriteLine("Today is rest day. What do you want to do?");

-             break;

-     }

- **Learn: How to use "switch" in coding**

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Homework:
Siri ask you "What time it is?"
You answer : "8am", "12am" or "8pm"
Siri answer: "it's time to get up.",
"it's time for lunch." or "it's time to sleep."
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Lesson 9
Play rock, paper, scissors game

▶ Play a game with computer

▶ Computer & you to choice one of options to compare.

▶ Radom & switch

Order food in Mcdonald's

- Choice some food for a meal
- Menu: Chips 1.4, Hamburger 2.2, Coco 1.0, coffee 0.99

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