Course Code and Section: CPR101- SNN

Week: 4

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**Week 4 activity**

**Option 2**

It’s a hard question to answer because we need to take many factors into account when deciding which computer language is the best suitable for most of the hardware we use now. The reason is very simple; technology keeps changing and evolving at a fast rate as our society grows in multiple areas. You could say that the growth of our current IT industry is very proportional to the growth of many subjects in the society. It could also mean that by the time I master one software language, it might be considered obsolete in the future. One can’t really make an affirm statement that any one of these languages is best suitable for all kinds of hardware that we use today. Therefore, it really depends on your personal preference and requirements for which hardware you would wish to learn and develop the software in the future.

But still, most of the software companies expect developers to master the C language; an introductory to programming language and an ancestor to C++, Java, C#, JavaScript. It is simple and also a stepping stone for you to learn other languages in the future. In addition to that, our current game industry is rapidly growing and already becoming a billion-dollar industry, and there are many eSports events where co-operations spend millions of dollars on them. Thus, alongside with C, C++ is in extremely high demand in the current game market right now.

**Option 3: Making a sandwich for lunch**

1. **Sequence:**

Grab two pieces of bread, a ham, lettuce, tomato, ketchup and mustard.

Place the piece of bread on a plate

Place the ham on top of the piece of bread

Place the lettuce on top of the ham

Place the tomato on top the lettuce

Place the ketchup and mustard on top of the tomato

Place the piece of bread on top of the ketchup and mustard

Pack the sandwich and exit the house

1. **Selection:**

Create hunger level variable

Grab two pieces of bread, a ham, lettuce, tomato, ketchup and mustard.

How hungry will I get in the afternoon?

Write down my hunger level in a scale of 1 to 10

Place a piece of bread on a plate

If my hunger level is equal and greater 2

place 3 pieces of ham on top of the piece of bread

else

place 1 piece of ham on top of the piece of bread

If my hunger level is equal and greater 5

place 2 pieces of lettuce on top of the ham

else

place 1 piece of lettuce on top of the ham

If my hunger level is equal and greater 6

place 2 pieces of tomato on top of the lettuce

else

place 1 piece of tomato on top of the lettuce

Place ketchup and mustard on top of the tomato

Pack the sandwich and exit the house

1. **Iteration:**

Create hunger level variable

Grab two pieces of bread, a ham, lettuce, tomato, ketchup and mustard.

How hungry will I get in the afternoon?

Write down my hunger level in a scale of 1 to 10

Place a piece of bread on a plate

While ham amounts reaches 8

If my hunger level is equal and greater 2

place 2 pieces of ham on top of the piece of bread

else

If my hunger level is less than 2

place 1 piece of ham on top of the piece of bread and stop

While lettuce amount reaches 6

If my hunger level is equal and greater 4

place 2 pieces of lettuce on top of the ham

else

If my hunger level is less than 4

place 1 piece of lettuce on top of the ham and stop

While tomato amount reaches 6

If my hunger level is equal and greater 6

place 2 pieces of tomato on top of the lettuce

else

If my hunger level is less than 6

place 1 piece of tomato on top of the lettuce ands stop

Place ketchup and mustard on top of the tomato

Pack the sandwich and exit the house