

LAB 1 : ทบทวนการเขียนโปรแกรม

1. Explain the difference between using a computer program and programming a computer

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2. What does this program print?

```

1) #include <stdio.h>
2)
3) int main()
4) {
5) printf("%s %d\n", "6 * 7 = ", 6 * 7);
6) return 0;
7) }
```

ผลลัพธ์

.....

3. Write two versions of the hello.cpp program that have different compile-time error version and run-time error version.

Version 1 (compile-time error)

.....

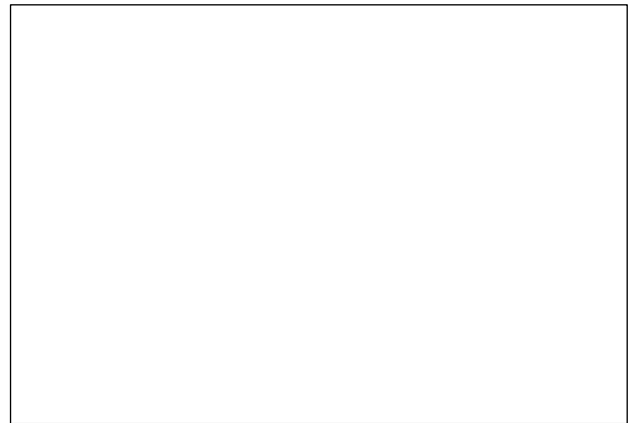
Version 2 (run-time error)

.....

4. Write an flowchart to settle the following question: A bank account starts out with \$10,000. Interest is compounded monthly at 6 percent per year (0.5 percent per month). Every month, \$500 is withdrawn to meet college expenses. After how many years is the account depleted?

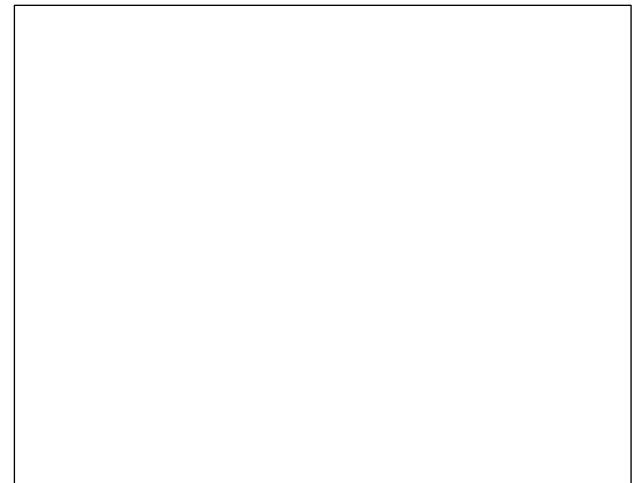
5. Write a program that prints your name in large letters, such as

```
* * ** **** ***** * *
* * * * * * * * * *
***** * * **** ***** * *
* * ***** * * * * *
* * * * * * * * * *
```



6. Write a program that prints a face similar to (but different from) the following:

```
////
+-----+
(| o o |)
| ^ |
| ' |
+-----+
```



7. The value of p can be computed according to the following formula:

$$\pi = 4 - \frac{4}{3} + \frac{4}{5} - \frac{4}{7} + \frac{4}{9} \dots$$

Write an algorithm to compute π . Because the formula is an infinite series and an algorithm must stop after a finite number of steps, you should stop when you have the result determined to six significant digit.

