

The responsibilities of a programmer include developing instructions. However, a skilled professional programmer does not simply begin typing at a computer keyboard. The program development cycle, consists of a series of steps which include seven stages. To successfully complete this part of the assignment, **identify the seven stages from the list below** for the Programming Development Cycle and put them in **order 1 - 7**. (5 Points)

1	Understand the problem							1	Identify the how the screen should look		
2	Plan the logic							2	Maintain the program		
3	Write the code							3	Plan the logic		
4	Translate the code							4	Plan the programming schedule		
5	Test the program							5	Provide an estimate to complete the work		
6	Put the program in production							6	Put the program in production		
7	Maintain the program							7	Test the program		
								8	Translate the code		
								9	Understand the problem		
								10	Write the code		

The following symbols are commonly used in program flowcharts to visually represent processes and decision points. Please identify these symbols and provide a brief description of their purpose in flowcharting. (5 Points)

Symbol Name

External module call

Calls an external or pre-defined process.

Symbol Name

Input/Output

Symbol that represents input or output.

Symbol Name

Terminal

Can signify keywords like start or end.

Symbol Name

Decision

Represents making a decision.

Symbol Name

Process

Represents a process or calculation logic.

Please choose between creating a flowchart or writing pseudocode to illustrate the logic of a program that enables the user to input the number of hours worked per day. The program will then calculate the total hours worked in a week (5 days) and in a year (252 workdays). The final results will be displayed as program output. (5 Points)									
START									
	Input dayOneHours, dayTwoHours, dayThreeHours, dayFourHours, dayFiveHours								
	totalWeekHours = dayOneHours + dayTwoHours + dayThreeHours + dayFourHours + dayFiveHours								
	hoursPerDay = totalWeekHours / 5								
	hoursPerYear = hoursPerDay * 252								
	Output "Hours per day: " + hoursPerDay								
	Output "Hours per year: " + hoursPerYear								
END									

1 The Software Development Life Cycle (SDLC) is a structured process utilized for designing, developing, and testing high-quality software. It is a methodology that outlines the comprehensive process of software development in a systematic manner. For this assignment enter the name of the SDLC step in the blue boxes by double clicking on the terminal shape

2 Name two interactive programming languages.

- 1
- 2

