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School of Computing and Information Technologies

PROGCON - CHAPTER 2

CLASS NUMBER: 09

SECTION: TMIBI

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DATE: 11 / 8 1 19

(20)

PART 1: Identify the following.

pała Type 1. A classification that describes what values can be assigned, how the variable is stored, and what types of operations can be performed with the variable.

Hierarchy onartz. A diagram that illustrates modules' relationships to each other.

Data Dictionary 3. A list of every variable name used in a program, along with its type, size, and description.

Functional Conegury. A measure of the degree to which all the module statements contribute to the same task.

prompt 3. A message that is displayed on a monitor to ask the user for a response and perhaps explain how that response should be formatted.

portable 8. A module that can more easily be reused in multiple programs.

Floating point A number with decimal places.

laenther & A program component's name.

Numeric Constants A specific numeric value.

ocuaration 10. A statement that provides a data type and an identifier for a variable.

Hungarian 11. A variable-naming convention in which a variable's data type or other information is stored as Notation part of its name.

Integer 12 A whole number.

Binary operator 13 An operator that requires two operands—one on each side.

magie number 14. An unnamed constant whose purpose is not immediately apparent.

Assignment 15. Assigns a value from the right of an assignment operator to the variable or constant on the left of the assignment operator.

Alphan u meric 16. Can contain alphabetic characters, numbers, and punctuation.

Keywords 17. Constitute the limited word set that is reserved in a language.

modnie Body 18. Contains all the statements in the module.

Annotation 19 Contains information that expands on what appears in another flowchart symbol; it is most often represented by a three-sided box that is connected to the step it references by a dashed line.

welf - pocumenting contains meaningful data and module names that describe the program's purpose.



Right akoclatisty and right to left accociations

21. Describe operators that evaluate the expression to the right first.

Numeric 22 Describes data that consists of numbers.

Left - right acceptable peribes operators that evaluate the expression to the left first.

Overhead 24. Describes the extra resources a task requires.

order of operations 25 Describes the rules of precedence.

In 100 pe 26. Describes the state of data that is visible.

Garbage 27. Describes the unknown value stored in an unassigned variable.

Local 28. Describes variables that are declared within the module that uses them.

29. Describes variables that are known to an entire program.

RUIES OF 30. Dictate the order in which operations in the same statement are carried out. precedence

Exernal bicu meater 80 cumentation that is outside a coded program.

Internal pocumentation within a coded program.

Real Numbers 33. Floating-point numbers.

Fna- of-JND tacky 34. Hold the steps you take at the end of the program to finish the application.

35 Include steps you must perform at the beginning of a program to get ready for the rest of the Honekeeping Tacks

program. petalled Loop

36. Include the steps that are repeated for each set of input data. Tarks

MUDULE Header 37. Includes the module identifier and possibly other necessary identifying information.

cover caving 38. Is another name for the camel casing naming convention.

39. Is sometimes used as the name for the style that uses dashes to separate parts of a name. kebon case

module return 40. Marks the end of the module and identifies the point at which control returns to the program or statement module that called the module.

wimenc variables. One that can hold digits, have mathematical operations performed on it, and usually can hold a decimal point and a sign indicating positive or negative.

main pragram 42. Runs from start to stop and calls other modules.

Named concrant 43 Similar to a variable, except that its value cannot change after the first assignment.

modules 44. Small program units that you can use together to make a program; programmers also refer to modules as subroutines, procedures, functions, or methods.

Inihaliang the 45. The act of assigning its first value, often at the same time the variable is created. vanable

Encapsulation 46. The act of containing a task's instructions in a module.

Decomposition 47 The act of reducing a large program into more manageable modules.

Echoing Input 48. The act of repeating input back to a user either in a subsequent prompt or in output.

Aut an ment Operates. The equal sign; it is used to assign a value to the variable or constant on its left.

Reuxability 50. The feature of modular programs that allows individual modules to be used in a variety of applications.

function correctly.

1. The feature of modular programs that assures you a module has been tested and proven to

camel Cavin g

The format for naming variables in which the initial letter is lowercase, multiple-word variable names are run together, and each new word within the variable name begins with an uppercase letter.

parcal caring 53. The format for naming variables in which the initial letter is uppercase, multiple-word variable names are run together, and each new word within the variable name begins with an uppercase letter.

mainline to gic 54. The logic that appears in a program's main module; it calls other modules.

Lyalue 55. The memory address identifier to the left of an assignment operator.

Modularization 56. The process of breaking down a program into modules.

Ab (Fraction 57. The process of paying attention to important properties while ignoring nonessential details.

Call a module 58. To use the module's name to invoke it, causing it to execute.

program Level 59. Where stobal variables are declared.

frog ram
60 Written explanations that are not part of the program logic but that serve as documentation for those reading the program.

Choose from the following paying attention to impr. properties while ignoring orka delective a ignorance 43. Modules - MIDUALIT OF PROGRAM PRODUM 1. Abstraction 22. Hierarchy chart 44. Named constant - raine my once 2. Alphanumeric values 23. Housekeeping tasks 45. Numeric (number) Annotation symbol 24. Hungarian notation 25. Identifier - vanable name ngnt to left - 4 46. Numeric constant (literal Assignment operator binary equal sign numeric constant) - data form Assignment statement 26. In scope 21. Initializing the variable - start 41. Numeric variable - holds digita, 8. Binary operator A8. Order of operations 7. Call a module 28. Integer 8. Camel casing - nump in middle 28. Internal documentation 49. Overhead Data dictionary - ranaples 116+ Kebob case 50. Pascal casing classincation 10. Data type < stong 81. Portable - self contained unity 31. Keywords providera 🗕 🗹. Declaration 52. Program comments 32. Left-to-right associativity dalo type 8 Detail loop tasks - core more 3/3. Local 53. Program level identifier for a vandble 13. Echoing input 34. Lower camel casing 54. Prompt 35. Lvalue - "44" ont program. - 14. Encapsulation 55. Real numbers 26. Magic number - mna med in module 25. End-of-job tasks 56. Reliability 16. External documentation 57. Reusability 17. Floating-point (ntegens!) 188. Right-associativity and 38. Mainline logic statement = came 39. Modularization - into modules 18. Functional cohesion right-to-left associativity aka #39 - 19. Functional decomposition 40. Module body 59. Rules of precedence 20. Garbage - ranables unknim 4. Module header 80. Self-documenting — meaning [1] M. Module return statement aka order of operations declared at anth me to from left to right the program level



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PART 2: Identify whether each variable name is valid, and if not explain why.

al Age 3pts

valla

h) age_*

Spts invalid - the "*" is vied to declare a pointer variable (notal the address of a ranable), this should be placed before the ranable and view with the data type 'int'.

invalid - "t" is a recerved symbol for addition operations, it would be withing for the program if that is placed with your variable

d) age_

*PK

valid

e) _age 3pts

valid

Age

mvalid - (see letter A) in the function, this will continue the program

and have a difficulty of differentiating the two variables

Invalid variables whould not begin with a number - rather letters because then a string of digits would be a valid identitier by h) Age 1 as well as a valid number ex. Int 17 = 497, int 42 = 6 + 9, etc.

invalid - while spaces breaks up a programming language and mill be difficult for the program to decipher - simply,

TPTS