**ELEMENTARY PROGRAMMING**

1. Who is a programmer?

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1. Mention any three example of programming languages

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1. State any five qualities of a good programmer

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1. Outline the differences between an interpreted and a compiled program

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| **Interpreted Program** | **Compiled Program** |
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1. Define the term programming?

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1. State three functions of a compiler

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1. Why is programming important?

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1. Explain five limiting factors to programming

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1. What is the difference between a computer program and a programming language

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1. Name the language translator that converts an assembly language into machine code

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1. Outline any three language translators you know

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1. State any four advantages of high level languages over low level languages

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1. Mention four categories of high level languages. Give examples in each

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1. Explain the factors to consider before choosing a programming language

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1. Write short notes on the following;
2. Codes

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1. Coding

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1. Comment

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1. Variable

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1. Object code

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1. Source code

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1. Function

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1. Keyword

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1. Program syntax

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1. Executable file.

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1. What is meant by program development life cycle?

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1. Explain the meaning of the following
2. Flow chart

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1. Dry run

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1. Code translation

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1. Explain the stages of the program development life cycle.

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1. Tabulate the end products of each stage in the program development life cycle

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| **STAGE** | **END PRODUCT** |
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1. Define the term pseudo code

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1. What is the difference between program requirements and requirements report?

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1. Distinguish between program coding and program design

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1. What are program bugs?

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1. Explain any three methods used to detect errors in a computer program’s code.

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1. Differentiate between syntactic and logical errors

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1. Give any two main types of test data that can be used to test a program

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1. Explain any five syntax errors committable during program coding and how they can be corrected

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1. To whom is program documentation done?

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1. Distinguish between internal and external documentation

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1. Explain the term program maintenance

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1. State three types of program maintenance

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1. Write algorithms(pseudo codes & flow charts) as well as **C** codes for the following programs
2. A program to return a string *“ a computer is a good device*”

|  |  |  |
| --- | --- | --- |
| **PSEUDO CODE** | **FLOW CHART** | **C CODE** |
|  |  |  |

1. A program to find and display **sum & product of two Numbers**

|  |  |  |
| --- | --- | --- |
| **PSEUDO CODE** | **FLOW CHART** | **C CODE** |
|  |  |  |

1. A program to find and display **perimeter and areas** of rectangle

|  |  |  |
| --- | --- | --- |
| **PSEUDO CODE** | **FLOW CHART** | **C CODE** |
|  |  |  |

1. A program to return a determine if a **Numbers is odd or even**

|  |  |  |
| --- | --- | --- |
| **PSEUDO CODE** | **FLOW CHART** | **C CODE** |
|  |  |  |

1. A program to find and display the **square roots of numbers**

|  |  |  |
| --- | --- | --- |
| **PSEUDO CODE** | **FLOW CHART** | **C CODE** |
|  |  |  |

1. A program to find roots of a quadratic equations

|  |  |  |
| --- | --- | --- |
| **PSEUDO CODE** | **FLOW CHART** | **C CODE** |
|  |  |  |

1. Program that can be used to classify people according to age limit, If a person is more than 20 year, output “Adult” otherwise output “Young person”.

|  |  |  |
| --- | --- | --- |
| **PSEUDO CODE** | **FLOW CHART** | **C CODE** |
|  |  |  |

1. Design a C code and an algorithm to prompt a user to enter two Numbers X and Y, divide X by Y. however, if the value of Y is 0, the program should display an error “error: Division by zero”.

|  |  |  |
| --- | --- | --- |
| **PSEUDO CODE** | **FLOW CHART** | **C CODE** |
|  |  |  |

1. A school uses a simple computerized system to manage student’s results. The school administers three types of exams namely beginning of term, midterm and end of term. The system administrator has set the system to get total of the three exams and find average which is used to promote the students to the next class. If average is below 50, the student is dismissed. Write a suitable algorithm and a C code for the above students’ results management system.

|  |  |  |
| --- | --- | --- |
| **PSEUDO CODE** | **FLOW CHART** | **C CODE** |
|  |  |  |

1. A tax agency uses a manual system to determine tax income from a set of workers basing on the following schedule.

|  |  |
| --- | --- |
| Range (shs) | Tax rate |
| 0 – 250,000 | 0% |
| 250,001 – 500,000 | 15% + Shs 5,000 |
| 500,001 – 750,000 | 25% + Shs. 15,000 |
| 750,001 - above | 30% + Shs. 20,000 |

 You are required to design a flow chart that will diagrammatically represent this information.

|  |  |
| --- | --- |
| **FLOW CHART** | **PSEUDO CODE** |
|  |  |