For Performance Measurement

ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

COMPUTER SCIENCE 4021/3

PAPER 3 Practical

SPECIMEN PAPER **3 hours**

Additional materials:
CD

TIME 3 hours

INSTRUCTIONS TO CANDIDATES

1. Insert your name, Centre number and candidate number as a header.
2. Answer **all** questions.
3. Indicate software you use for each question.
4. All answers must be printed.
5. Submit both the hard copy and soft copy of your answers.

INFORMATION TO THE CANDIDATE

1. This paper consists of question on:

Programming	50	marks,
Database	30	marks
Web design	20	marks
Paper total is	100	marks

2. The number of marks is given in brackets [ ] at the end of each question or part question.

This question paper consists of 4 printed pages.

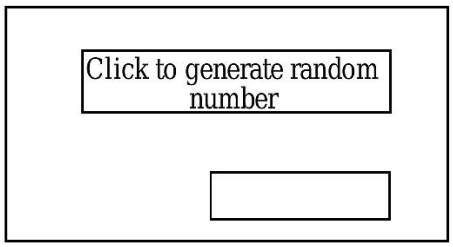
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Answer **all** questions.

For each question, indicate software used.

1. Design an interface and write a code that prompts a user to enter his/her name then, the output will be shown e.g. "Hello Chipo." [10]

2. Create a program code to generate a random number between 1 to 6.
You can use the random class.



Produce the interface above. [10]

3. Write a program code to display the harsh pattern as shown below.

```
#    #    #    #    #
#    #    #    #    #
#    #    #    #    #
#    #    #    #    #
#    #    #    #    #
```

Print the code and interface above. [15]

4. Write and design a program to determine whether an input number is an even number.

Print the code and the interface [15]

5. **(a)** Create a website with the following:
The title of your Website is "Matulise;"
Welcome to Frecy High School;
We offer practical subjects at 'O' Level;
We offer Arts, Commercials and Sciences at 'A' Level.

(b) Show pictures on the website you created in **(a).**
Save document as 'School.'
Print web pages created. [20]

6. **(a)** Create **three** related tables, 'customer', 'products' and 'orders' as shown:

Customers

Customer ID	First Name	Last Name
1	Peter	Homela
2	Gibson	Ndlovu
3	James	Moyo
4	John	Sibanda
5	Alfred	Matare
6	Susan	Brown
7	Thomas	Meki
8	Tafadzwa	Chaminuka
9	Thulani	Mangena
10	Solomon	Mhlanga
11	Charles	Jones

Products

Product ID	Product Name	Price
1	Deskjet Printer	$200
2	Dell Desktop	$190
3	Laptop	$175
4	Toner	$50
5	Cartridge	$40
6	Canon Printer	$65
7	Typek A4	$25

Orders

Order ID	Customer ID	Product ID
1	1	1
2	2	2
3	10	3
4	10	4
5	3	5
6	4	1
7	5	3
8	6	6
9	7	4
10	8	2
11	1	6
12	6	1
(New)	0	0

(b) Establish the relationship among the tables in **(a).** [15]

Print the screenshot of the result. [4]

(c) Using tables in **(a)**, create a query that returns the Firstname and Lastname of all customers who have ordered a product.

Name it "Customer orders." [5]

d) Produce a report from 'product' table in **(a)** and name it "Customer report." [4]

e) Export the report in **(d)** to a package of your choice. [2]