Palestine Technical University - Kadoorie

Course's Name: Assembly

and microprocessor language

Course's Number: 12140415

Exam's Period: 1 hours

Questions' Number: 3

Total Mark: 30

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Midterm Exam

second Semester 2020-2021

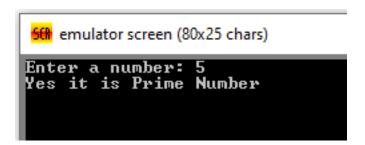
Instructor's Name:
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Student's Name:
Student's Number:
Section's Number:

Exam's Date: 04/4/2021

Q1) Write an assembly program that prompts a user to enter a number and checks if the number is a prime.

If the number is not prime, the program prints the number of factors of a number except 1 and same number. (10 marks)

Note: Enter numbers less than 10.



emulator screen (80x25 chars)

Enter a number: 8
No it is Not Prime Number. It has 2 factor except 1 and same number.

60 emulator screen (80x25 chars)

Enter a number: 9
No it is Not Prime Number. It has 1 factor except 1 and same number.

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Q2)

(A) Write an assembly program that print your Full Name as shown below: (5 marks)

```
6ff emulator screen (80x25 chars)
```

```
Rawan_Qabaha
Rawan_Qaba
Rawan_Qab
Rawan_Qa
Rawan_Q
Rawan_
Rawan
Rawa
Raw
Raw
Ra
```

Note: Define the string as a variable

(B) Write an Assembly Language program that allows the user to enter a 3 numbers and prints the minimum number between them . (5 marks)

Note: Assume the numbers less than 10.

Q3) Write an 8086 program to check whether a given string is palindrome or not. (10 marks)



Note: Define the string as a variable

