



আন্তর্জাতিক ইসলামী বিশ্ববিদ্যালয় চট্টগ্রাম
الجامعة الإسلامية العالمية شيتاغونغ
International Islamic University Chittagong

LAB REPORT

COURSE TITLE : Programming with Python

SUBMITTED TO : Abdullahil Kafi
Assistant Professor
Department of CSE, IIUC

SUBMITTED BY :

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ID NO : C231185

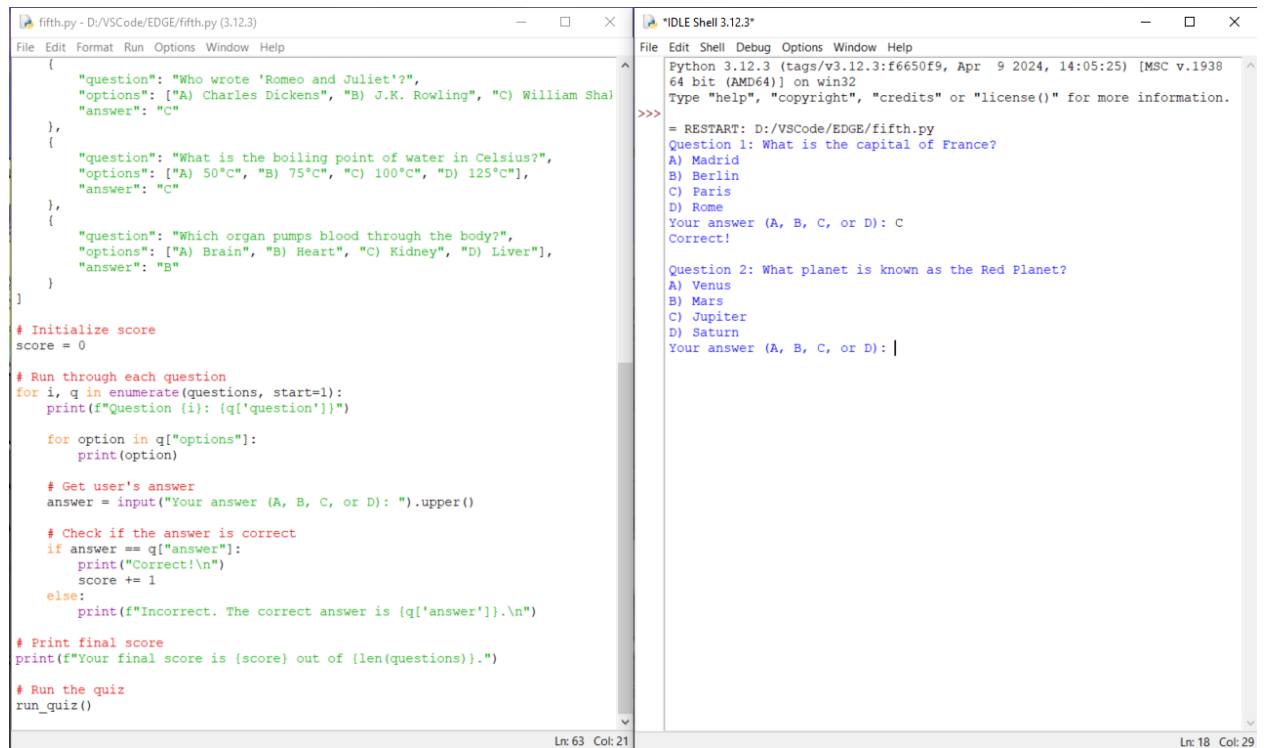
SEMESTER : 4th

DEPARTMENT : Computer Science and Engineering

DATE OF SUBMISSION : 16th December, 2024.

REMARK:

a) Create a multiple-choice quiz with 10 questions. Use a list of dictionaries to store each question, its answer choices, and the correct answer. It presents each question to the user and checks their responses, then provides a score at the end.



```
fifth.py - D:/VSCode/EDGE/fifth.py (3.12.3)
File Edit Format Run Options Window Help
{
  "question": "Who wrote 'Romeo and Juliet'?",
  "options": ["(A) Charles Dickens", "(B) J.K. Rowling", "(C) William Sha"],
  "answer": "C"
},
{
  "question": "What is the boiling point of water in Celsius?",
  "options": ["(A) 50°C", "(B) 75°C", "(C) 100°C", "(D) 125°C"],
  "answer": "C"
},
{
  "question": "Which organ pumps blood through the body?",
  "options": ["(A) Brain", "(B) Heart", "(C) Kidney", "(D) Liver"],
  "answer": "B"
}
]

# Initialize score
score = 0

# Run through each question
for i, q in enumerate(questions, start=1):
    print(f"Question {i}: {q['question']}")

    for option in q["options"]:
        print(option)

    # Get user's answer
    answer = input("Your answer (A, B, C, or D): ").upper()

    # Check if the answer is correct
    if answer == q["answer"]:
        print("Correct!\n")
        score += 1
    else:
        print(f"Incorrect. The correct answer is {q['answer']}\n")

# Print final score
print(f"Your final score is {score} out of {len(questions)}.")

# Run the quiz
run_quiz()
```

```
"IDLE Shell 3.12.3"
File Edit Shell Debug Options Window Help
Python 3.12.3 (tags/v3.12.3:f6650f9, Apr 9 2024, 14:05:25) [MSC v.1938
64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: D:/VSCode/EDGE/fifth.py
Question 1: What is the capital of France?
A) Madrid
B) Berlin
C) Paris
D) Rome
Your answer (A, B, C, or D): C
Correct!

Question 2: What planet is known as the Red Planet?
A) Venus
B) Mars
C) Jupiter
D) Saturn
Your answer (A, B, C, or D): |
```

Ln: 63 Col: 21

Ln: 18 Col: 29

```
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Ln: 63 Col: 21

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Correct!

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A) Venus
B) Mars
C) Jupiter
D) Saturn
Your answer (A, B, C, or D): B
Correct!

Question 3: Who discovered gravity?
A) Galileo
B) Einstein
C) Newton
D) Tesla
Your answer (A, B, C, or D):
```

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        print(f"Incorrect. The correct answer is {q['answer']}\n")

# Print final score
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# Run the quiz
run_quiz()
Ln: 63 Col: 21

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A) Venus
B) Mars
C) Jupiter
D) Saturn
Your answer (A, B, C, or D): B
Correct!

Question 3: Who discovered gravity?
A) Galileo
B) Einstein
C) Newton
D) Tesla
Your answer (A, B, C, or D): A
Incorrect. The correct answer is C.

Question 4: What is the square root of 64?
A) 6
B) 8
C) 10
D) 12
Your answer (A, B, C, or D):
```

```
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# Run through each question
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    answer = input("Your answer (A, B, C, or D): ").upper()

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A) Venus
B) Mars
C) Jupiter
D) Saturn
Your answer (A, B, C, or D): B
Correct!

Question 3: Who discovered gravity?
A) Galileo
B) Einstein
C) Newton
D) Tesla
Your answer (A, B, C, or D): A
Incorrect. The correct answer is C.

Question 4: What is the square root of 64?
A) 6
B) 8
C) 10
D) 12
Your answer (A, B, C, or D): B
Correct!

Question 5: Which is the largest ocean on Earth?
A) Atlantic Ocean
B) Indian Ocean
C) Arctic Ocean
D) Pacific Ocean
Your answer (A, B, C, or D): |

```
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    if answer == q["answer"]:
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        score += 1
    else:
        print(f"Incorrect. The correct answer is {q['answer']}\n")

# Print final score
print(f"Your final score is {score} out of {len(questions)}.")

# Run the quiz
run_quiz()
```

C) Paris
D) Rome
Your answer (A, B, C, or D): C
Correct!

Question 2: What planet is known as the Red Planet?
A) Venus
B) Mars
C) Jupiter
D) Saturn
Your answer (A, B, C, or D): B
Correct!

Question 3: Who discovered gravity?
A) Galileo
B) Einstein
C) Newton
D) Tesla
Your answer (A, B, C, or D): A
Incorrect. The correct answer is C.

Question 4: What is the square root of 64?
A) 6
B) 8
C) 10
D) 12
Your answer (A, B, C, or D): B
Correct!

Question 5: Which is the largest ocean on Earth?
A) Atlantic Ocean
B) Indian Ocean
C) Arctic Ocean
D) Pacific Ocean
Your answer (A, B, C, or D): D
Correct!

Question 6: Which country is famous for the Great Wall?
A) India
B) China
C) Japan
D) Thailand
Your answer (A, B, C, or D): |

```
fifth.py - D:/VSCode/EDGE/fifth.py (3.12.3)
File Edit Format Run Options Window Help
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# Initialize score
score = 0

# Run through each question
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    print(f"Question {i}: {q['question']}")

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    answer = input("Your answer (A, B, C, or D): ").upper()

    # Check if the answer is correct
    if answer == q["answer"]:
        print("Correct!\n")
        score += 1
    else:
        print(f"Incorrect. The correct answer is {q['answer']}\n")

# Print final score
print(f"Your final score is {score} out of {len(questions)}.")

# Run the quiz
run_quiz()
```

Ln: 63 Col: 21

```
"IDLE Shell 3.12.3"
File Edit Shell Debug Options Window Help
C) Jupiter
D) Saturn
Your answer (A, B, C, or D): B
Correct!

Question 3: Who discovered gravity?
A) Galileo
B) Einstein
C) Newton
D) Tesla
Your answer (A, B, C, or D): A
Incorrect. The correct answer is C.

Question 4: What is the square root of 64?
A) 6
B) 8
C) 10
D) 12
Your answer (A, B, C, or D): B
Correct!

Question 5: Which is the largest ocean on Earth?
A) Atlantic Ocean
B) Indian Ocean
C) Arctic Ocean
D) Pacific Ocean
Your answer (A, B, C, or D): D
Correct!

Question 6: Which country is famous for the Great Wall?
A) India
B) China
C) Japan
D) Thailand
Your answer (A, B, C, or D): B
Correct!

Question 7: What is the powerhouse of the cell?
A) Nucleus
B) Mitochondria
C) Ribosome
D) Chloroplast
Your answer (A, B, C, or D):
```

Ln: 58 Col: 29

```
fifth.py - D:/VSCode/EDGE/fifth.py (3.12.3)
File Edit Format Run Options Window Help
{
    "question": "Who wrote 'Romeo and Juliet'?",
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    # Check if the answer is correct
    if answer == q["answer"]:
        print("Correct!\n")
        score += 1
    else:
        print(f"Incorrect. The correct answer is {q['answer']}\n")

# Print final score
print(f"Your final score is {score} out of {len(questions)}.")

# Run the quiz
run_quiz()
```

Ln: 63 Col: 21

```
"IDLE Shell 3.12.3"
File Edit Shell Debug Options Window Help
C) Newton
D) Tesla
Your answer (A, B, C, or D): A
Incorrect. The correct answer is C.

Question 4: What is the square root of 64?
A) 6
B) 8
C) 10
D) 12
Your answer (A, B, C, or D): B
Correct!

Question 5: Which is the largest ocean on Earth?
A) Atlantic Ocean
B) Indian Ocean
C) Arctic Ocean
D) Pacific Ocean
Your answer (A, B, C, or D): D
Correct!

Question 6: Which country is famous for the Great Wall?
A) India
B) China
C) Japan
D) Thailand
Your answer (A, B, C, or D): B
Correct!

Question 7: What is the powerhouse of the cell?
A) Nucleus
B) Mitochondria
C) Ribosome
D) Chloroplast
Your answer (A, B, C, or D): B
Correct!

Question 8: Who wrote 'Romeo and Juliet'?
A) Charles Dickens
B) J.K. Rowling
C) William Shakespeare
D) Leo Tolstoy
Your answer (A, B, C, or D):
```

Ln: 66 Col: 29

```
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# Run the quiz
run_quiz()
```

Ln: 63 Col: 21

```
"IDLE Shell 3.12.3"
File Edit Shell Debug Options Window Help
C) 10
D) 12
Your answer (A, B, C, or D): B
Correct!

Question 5: Which is the largest ocean on Earth?
A) Atlantic Ocean
B) Indian Ocean
C) Arctic Ocean
D) Pacific Ocean
Your answer (A, B, C, or D): D
Correct!

Question 6: Which country is famous for the Great Wall?
A) India
B) China
C) Japan
D) Thailand
Your answer (A, B, C, or D): B
Correct!

Question 7: What is the powerhouse of the cell?
A) Nucleus
B) Mitochondria
C) Ribosome
D) Chloroplast
Your answer (A, B, C, or D): B
Correct!

Question 8: Who wrote 'Romeo and Juliet'?
A) Charles Dickens
B) J.K. Rowling
C) William Shakespeare
D) Leo Tolstoy
Your answer (A, B, C, or D): C
Correct!

Question 9: What is the boiling point of water in Celsius?
A) 50°C
B) 75°C
C) 100°C
D) 125°C
Your answer (A, B, C, or D): |
```

Ln: 74 Col: 29

```
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File Edit Format Run Options Window Help
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    # Check if the answer is correct
    if answer == q["answer"]:
        print("Correct!\n")
        score += 1
    else:
        print(f"Incorrect. The correct answer is {q['answer']}\n")

# Print final score
print(f"Your final score is {score} out of {len(questions)}.")

# Run the quiz
run_quiz()
```

Ln: 63 Col: 21

```
"IDLE Shell 3.12.3"
File Edit Shell Debug Options Window Help
C) Arctic Ocean
D) Pacific Ocean
Your answer (A, B, C, or D): D
Correct!

Question 6: Which country is famous for the Great Wall?
A) India
B) China
C) Japan
D) Thailand
Your answer (A, B, C, or D): B
Correct!

Question 7: What is the powerhouse of the cell?
A) Nucleus
B) Mitochondria
C) Ribosome
D) Chloroplast
Your answer (A, B, C, or D): B
Correct!

Question 8: Who wrote 'Romeo and Juliet'?
A) Charles Dickens
B) J.K. Rowling
C) William Shakespeare
D) Leo Tolstoy
Your answer (A, B, C, or D): C
Correct!

Question 9: What is the boiling point of water in Celsius?
A) 50°C
B) 75°C
C) 100°C
D) 125°C
Your answer (A, B, C, or D): C
Correct!

Question 10: Which organ pumps blood through the body?
A) Brain
B) Heart
C) Kidney
D) Liver
Your answer (A, B, C, or D): |
```

Ln: 82 Col: 29

```
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File Edit Format Run Options Window Help
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    {
        "question": "What is the boiling point of water in Celsius?",
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    },
    {
        "question": "Which organ pumps blood through the body?",
        "options": ["A) Brain", "B) Heart", "C) Kidney", "D) Liver"],
        "answer": "B"
    }
]

# Initialize score
score = 0

# Function to run the quiz
def run_quiz():
    global score # Access the global score variable

    # Run through each question
    for i, q in enumerate(questions, start=1):
        print(f"Question {i}: {q['question']}")
        for option in q["options"]:
            print(option)

        # Get user's answer
        answer = input("Your answer (A, B, C, or D): ").upper()

        # Check if the answer is correct
        if answer == q["answer"]:
            print("Correct!\n")
            score += 1
        else:
            print(f"Incorrect. The correct answer is {q['answer']}\n")

    # Print final score
    print(f"Your final score is {score} out of {len(questions)}.")

# Run the quiz
run_quiz()
Ln: 60 Col: 52

IDLE Shell 3.12.3
File Edit Shell Debug Options Window Help
Correct!

Question 6: Which country is famous for the Great Wall?
A) India
B) China
C) Japan
D) Thailand
Your answer (A, B, C, or D): B
Correct!

Question 7: What is the powerhouse of the cell?
A) Nucleus
B) Mitochondria
C) Ribosome
D) Chloroplast
Your answer (A, B, C, or D): B
Correct!

Question 8: Who wrote 'Romeo and Juliet'?
A) Charles Dickens
B) J.K. Rowling
C) William Shakespeare
D) Leo Tolstoy
Your answer (A, B, C, or D): C
Correct!

Question 9: What is the boiling point of water in Celsius?
A) 50°C
B) 75°C
C) 100°C
D) 125°C
Your answer (A, B, C, or D): C
Correct!

Question 10: Which organ pumps blood through the body?
A) Brain
B) Heart
C) Kidney
D) Liver
Your answer (A, B, C, or D): B
Correct!

Your final score is 9 out of 10.
Ln: 90 Col: 0
```