Under the patronage of His Excellency the Minister of Education

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and the directives of

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Evaluations and Assignments

Information and Communication Technology

for the Third Preparatory Grade

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Third Preparatory Grade – Weekly Evaluation and Homework - Week (9)

Unit 1: Artificial Intelligence and Programming Languages

Lesson 5: (Handling User Input Errors in Python)

Weekly Evaluation

First Test

Answer the following questions:

1) Name two types of errors a user might cause when dividing two numbers in Python?
2) Is it permissible to write an except block without a preceding try block in Python?

Choose the correct answer from the following options.

What does break do in code that combines while and try?

a) Stops the entire program
b) Moves to except
c) Exits the while loop when the input is successful
d) Repeats the loop

Second Test

Answer the following questions:

1) Briefly explain the path the Python interpreter takes when an error occurs inside a try block.
2) Can error handling be applied inside functions using try and except?

Choose the correct answer from the following options.

What is the expected output of the following code?

```
try:
    num1 = int("10")
    num2 = int("2")
print(num1 / num2)
except:
print("Error")
```

a) Error b) 5.0 c) 10/2 d) 20



Third Test

Answer the following questions:

1) Why is the `break` statement placed immediately after the line that reads valid input in code that uses `while True` with `try`?
2) Why is handling user input errors crucial in commercial applications and web programs?

Choose the correct answer from the following options.

What is the expected output of the following code if the user enters 0?

```
try:
    num = int(input("Enter: "))
    result = 100 / num
  print(result)
except ValueError:
   print("Enter numbers only!")
except ZeroDivisionError:
   print("Cannot divide by zero!")
```

a) 100 b) Enter numbers only!

c) Cannot divide by zero! d) 0

Class Evaluation

Using what you have learned about handling errors with the try and except code in Python, design and write a simple program that asks the user to enter their current age (age) as an integer, then calculates their age after 5 years (age + 5) and prints the result. Make sure to print the message "Please enter a whole number representing your age!" if the user enters text or letters instead of numbers.

Homework

Answer the following questions:

1) Suggest an appropriate message to include inside except for a program that asks the user to enter a numerical temperature.
2) What is the expected result of the following code?

```
try:
    num = int("abc")
except:
    print("Error!")
```

Choose the correct answer from the following options.

In the following code, what message appears if the user enters "abc"?

```
try:
    age = int(input("Enter age: "))
    print("Next year: ", age + 1)
except ValueError:
    print("Please enter a valid number! ")
except:
    print("Unknown error!")
```

a) Next year: abc1

b) Unknown error!

c) Please enter a valid number!

d) The program stops without a message

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