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Python Workshop Series

Department of Computer Science – OUSL

Activity 04

The activity given is as follows.

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1. Write a Python program that asks the user to enter a number and prints whether the number is even or odd. If the user input 0, print (“Invalid Input”)
 2. Write a Python program that asks the user to enter an integer and prints whether the number is divisible by 3, divisible by 5, divisible by both, or divisible by neither. The program should keep asking for a number until the user enters 0 to stop.
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This block is intentionally left blank.

1.

```
#15/1/2025
#This is the code for Q1 in activity 4 of python workshop @ OUSL
#All rights reserved

#>> We use while loop to keep asking integers from the user.
#>> We also use Try-Except block to prevent the user to enter invalid input.
#>> Inside the loop, We use If statement to classify the integer given by the user.

#The head
print("THE EVEN-ODD IDENTIFIER\nInput q to quit\n-----")

#While loop to keep asking
while True:
    try:
        x = input("Give me the number: ")
        if x == "q":
            quit() # 'q' terminates the program
        elif x == "":
            print("Looks like empty input!") #identify empty input
        elif x == " ":
            print("That was space, not a number!") #identify space
        elif int(x) == 0:
            print("Invalid Input!") #identify 0
        elif int(x)%2 == 0:
            print("That was an even number pal!") #identify even numbers
        elif int(x)%2 == 1:
            print("That was an odd number pal!") #identify odd numbers
    except:
        print("I don't know what that was!") #for other unknown inputs
```

```
Python 3.13.1 (tags/v3.13.1:0671451, Dec 3 2024, 19:06:28) [MSC v.1942 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
== RESTART: D:\GitHubProjects\Python_Workshop_Series_OUSL\Q_01_Activity_04.py ==
THE EVEN-ODD IDENTIFIER
Input q to quit
-----
Give me the number: 2
That was an even number pal!
Give me the number: 3
That was an odd number pal!
Give me the number: 4
That was an even number pal!
Give me the number: 5
That was an odd number pal!
Give me the number: 6
That was an even number pal!
Give me the number: 7
That was an odd number pal!
Give me the number: 345362532452467475
That was an odd number pal!
Give me the number: 4r22342424242524525422
I don't know what that was!
Give me the number:
Looks like empty input!
Give me the number:
That was space, not a number!
Give me the number: 0
Invalid Input!
Give me the number: q
>>> |
```

Ln: 31 Col: 0

```
Q_01_Activity_04.py - D:\GitHubProjects\Python_Workshop_Series_OUSL\Q_01_Activity_04.py (3...
File Edit Format Run Options Window Help

#15/1/2025
#This is the code for Q1 in activity 4 of python workshop @ OUSL
#All rights reserved

#>> We use while loop to keep asking integers from the user.
#>> We also use Try-Except block to prevent the user to enter invalid input.
#>> Inside the loop, We use If statement to classify the integer given by the user

#The head
print("THE EVEN-ODD IDENTIFIER\nInput q to quit\n-----")

#While loop to keep asking
while True:
    try:
        x = input("Give me the number: ")
        if x == "q":
            quit() #'q' terminates the program
        elif x == "":
            print("Looks like empty input!") #identify empty input
        elif x == " ":
            print("That was space, not a number!") #identify space
        elif int(x) == 0:
            print("Invalid Input!") #identify 0
        elif int(x)%2 == 0:
            print("That was an even number pal!") #identify even numbers
        elif int(x)%2 == 1:
            print("That was an odd number pal!") #identify odd numbers
    except:
        print("I don't know what that was!") #for other unknown inputs

Ln: 16 Col: 0
```

2.

```
#16/1/2025
#This is the code for Q2 in activity 4 of python workshop @ OUSL
#All rights reserved

#>> We use while loop to keep asking integers from the user.
#>> We also use Try-Except block to prevent the user to enter invalid input.
#>> Inside the loop, We use If statement to classify the integer given by the user.

#The head
print("THE THREE FIVE FACTOR IDENTIFIER\nInput 0 to stop\n-----")

#While loop to keep asking
while True:
    try:
        x = input("Give me the number: ")
        if x == "":
            print("Looks like empty input!") #identify empty input
        elif x == " ":
            print("That was space, not a number!") #identify space
        elif int(x) == 0:
            break #0 breaks the program
        elif int(x)%3 == 0 and int(x)%5 == 0:
            print(x,"is divisible by both 3 and 5") #identify numbers by 3,5
        elif int(x)%3 == 0:
            print(x, "is divisible by 3") #identify numbers by 3
        elif int(x)%5 == 0:
            print(x, "is divisible by 5") #identify numbers by 5
        else:
            print(x,"is divisible by neither both 3 and 5") #Numbers neither 3,5
    except:
        print("I don't know what that was!") #for other unknown inputs
```

```
IDLE Shell 3.13.1
File Edit Shell Debug Options Window Help
Python 3.13.1 (tags/v3.13.1:0671451, Dec 3 2024, 19:06:28) [MSC v.1942 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
== RESTART: D:\GitHubProjects\Python_Workshop_Series_OUSL\Q_02_Activity_04.py ==
THE THREE FIVE FACTOR IDENTIFIER
Input 0 to stop
-----
Give me the number:
Looks like empty input!
Give me the number:
That was space, not a number!
Give me the number: 15
15 is divisible by both 3 and 5
Give me the number: 120
120 is divisible by both 3 and 5
Give me the number: 18
18 is divisible by 3
Give me the number: 123
123 is divisible by 3
Give me the number: 50
50 is divisible by 5
Give me the number: 130
130 is divisible by 5
Give me the number: 56
56 is divisible by neither both 3 and 5
Give me the number: 82
82 is divisible by neither both 3 and 5
Give me the number: gtrhtr
I don't know what that was!
Give me the number: jhy
I don't know what that was!
Give me the number: 0
>>>
```

Ln: 33 Col: 0

```
Q_02_Activity_04.py - D:\GitHubProjects\Python_Workshop_Series_OUSL\Q_02_Activity_04.py (3...
File Edit Format Run Options Window Help

#16/1/2025
#This is the code for Q2 in activity 4 of python workshop @ OUSL
#All rights reserved

#>> We use while loop to keep asking integers from the user.
#>> We also use Try-Except block to prevent the user to enter invalid input.
#>> Inside the loop, We use If statement to classify the integer given by the user

#The head
print("THE THREE FIVE FACTOR IDENTIFIER\nInput 0 to stop\n-----")

#While loop to keep asking
while True:
    try:
        x = input("Give me the number: ")
        if x == "":
            print("Looks like empty input!") #identify empty input
        elif x == " ":
            print("That was space, not a number!") #identify space
        elif int(x) == 0:
            break #0 breaks the program
        elif int(x)%3 == 0 and int(x)%5 == 0:
            print(x,"is divisible by both 3 and 5") #identify numbers by 3,5
        elif int(x)%3 == 0:
            print(x, "is divisible by 3") #identify numbers by 3
        elif int(x)%5 == 0:
            print(x, "is divisible by 5") #identify numbers by 5
        else:
            print(x,"is divisible by neither both 3 and 5") #Numbers neither 3,5
    except:
        print("I don't know what that was!") #for other unknown inputs

Ln: 33 Col: 0
```

Dear sir/madam, please visit repositories for more information:

https://github.com/loachana/Python_Workshop_Series_OUSL.git