MENEDŻERSKA AKADEMIA NAUK STOSOWANYCH W WARSZAWIE

55 DPH COMPUTER ENGINEERING

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PROGRAMMING IN SCRIPTING LANGUAGES

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Question 01

Write a program to print "Hello, World!" to the console.

Solution 01

```
import math
#1
print("Hello world")
```

```
"C:\Users\enfal\OneDrive\Masaüstü\laboratory01 homework\Scripts\python.exe" "C:\Users\enfal\PycharmProjects\laboratory01 homework\main.py"

Hello world
```

Question 02

Write a program that takes user input for their name and age and prints a message to the console that says "Hello [name], you are [age] years old."

Solution 02

```
#2
name="Enfal"
age=20
print("Hello {},{} years old".format(name,age))
```

```
Hello Enfal,20 years old
```

Question 03

Write a program that calculates the area of a circle based on user input for the radius.

Solution 03

```
#3
radius = float(input("Enter the radius of the circle:"))
area = math.pi * (radius**2)
print("The are of the circle with radius",radius,"is:",area )
```

```
Enter the radius of the circle:5

The are of the circle with radius 5.0 is: 78.53981633974483
```

Question 04

Write a program that takes a list of numbers and returns the sum of those numbers

Solution 04

```
#4
numbers = [13,2,27,10,5,4,9,8,7]
print(sum(numbers))
```

Question 05

Write a program that takes a string input and returns the reverse of that string.

Solution 05

```
#5
colours=["black","white","yellow","blue","green"]
colours.reverse()
print(colours)
```

```
['green', 'blue', 'yellow', 'white', 'black']
```

Question 06

Write a program that reads a file and counts the number of occurrences of each word in the file.

Solution 06

```python
#6
with open('fruitsss.txt..txt', 'r') as file:
    word_counts = {}

    for line in file:
        words = line.strip().split()

        for word in words:
            if word in word_counts:
                word_counts[word] += 1
            else:
                word_counts[word] = 1

for word, count in word_counts.items():
    print(word,":",count)
```

```
Apple : 3
Grapefruit : 1
Kiwi : 4
Banana : 3
Avocado : 2
Blackberry : 1
Cherry : 2
```

Question 07

Write a program to check if a given number is even or odd.

Solution 07

```python
#7
number=int(input("write a number"))
if number %2 == 0:
    print("is even")
else:
    print("is odd")
```

```
write a number1881

is odd
```

Question 08

Write a program to find the largest among three numbers entered by the user

Solution 08

```
#8
num1 = int(input("first number: "))
num2 = int(input("second number: "))
num3 = int(input("third number: "))

if num1 > num2 and num1 > num3:
    largest = num1
elif num2 > num1 and num2 > num3:
    largest = num2
else:
    largest = num3

print("The largest number is", largest)
```

```
first number: 45
second number: 56
third number: 69
The largest number is 69
```

Question 09

Write a program to print the multiplication table of a given number.

Solution 09

```python
#9
num = int(input("Enter a number: "))

print("Multiplication Table of", num)
for i in range(1, 11):
    print(num, "x", i, "=", num*i)
```

```
Enter a number: 5
Multiplication Table of 5
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50

Process finished with exit code 0
```