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ANP-C7801

Control Statements

1)Write a Python program that takes a number as input and prints "Even" if the number is even and "Odd" if it's odd.

Ans:

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

if num % 2 ==  0:

    print("Even")

else:

    print("Odd")
```

Output:

Example 1:

```
>>>
============ RESTART: C:/Users/sunko/OneDrive/Control statements.py ============
Enter a number: 9
Odd
>>>
```

Example 2:

```
>>>
============ RESTART: C:/Users/sunko/OneDrive/Control statements.py ============
Enter a number: 54
Even
>>>
```

2. Create a Python program that checks whether a person is eligible to vote (18 years or older) based on their age.

Ans:

```
age = int (input ("Enter your age: "))

if age >= 18:

    print ("You are eligible to vote.")

else:

    print ("You are not eligible to vote.")
```

Output:

Example 1:

```
>>>
============ RESTART: C:/Users/sunko/OneDrive/Control statements.py ============
Enter your age: 21
You are eligible to vote.
>>>
```

Example 2:

```
>>>
============ RESTART: C:/Users/sunko/OneDrive/Control statements.py ============
Enter your age: 16
You are not eligible to vote.
>>>
```

3. Write a Python program that determines if a given year is a leap year or not.

Ans:

```
year = int (input ("Enter a year: "))


if year % 4 == 0 and (year % 100 != 0 or year % 400 == 0):
    print (year, "is a leap year.")
else:
    print (year, "is not a leap year.")
```

Output:

Example 1:

```
>>>
============ RESTART: C:/Users/sunko/OneDrive/Control statements.py ============
Enter a year: 2003
2003 is not a leap year.
>>>
```

Example 2:

```
>>>
============ RESTART: C:/Users/sunko/OneDrive/Control statements.py ============
Enter a year: 2024
2024 is a leap year.
>>>
```

4. Create a Python program that checks if a user-given number is positive, negative, or zero.

Ans:

```
def check_sign (num):
    if num > 0:
        return "Positive"
    elif num < 0:
        return "Negative"
    else:
        return "Zero"
num = float (input ("Enter a number: "))
print ("The number is:", check_sign  (num))
```

Output:

Example 1:

```
>>>
============ RESTART: C:/Users/sunko/OneDrive/Control statements.py ============
Enter a number: 9
The number is: Positive
```

Example 2:

```
>>>
============ RESTART: C:/Users/sunko/OneDrive/Control statements.py ============
Enter a number: -9
The number is: Negative
>>>
```

Example 3:

```
>>>
============ RESTART: C:/Users/sunko/OneDrive/Control statements.py ============
Enter a number: 0
The number is: Zero
>>>
```

5. Write a Python program that determines the largest of three numbers entered by the user.

Ans:

```
def find_largest (num1, num2, num3):
    if num1 >= num2 and num1 >= num3:
        return num1
    elif num2 >= num1 and num2 >= num3:
        return num2
    else:
        return num3
num1 = float (input ("Enter the first number: "))
num2 = float (input ("Enter the second number: "))
num3 = float (input ("Enter the third number: "))
largest = find_largest (num1, num2, num3)
print ("The largest number is:", largest)
```

Example 1:

```
>>>
============ RESTART: C:/Users/sunko/OneDrive/Control statements.py ============
Enter the first number: 108
Enter the second number: 100
Enter the third number: 201
The largest number is: 201.0
>>>
```

Example 2:

```
>>>
============ RESTART: C:/Users/sunko/OneDrive/Control statements.py ============
Enter the first number: 99
Enter the second number: 108
Enter the third number: 999
The largest number is: 999.0
>>>
```