Practice set 4

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1) Accept two integer values from the user; display the number which is smaller and the number which is bigger.

```
a=int(input('enter a value 1:'))
b=int(input('enter a value 2:'))
if a<b:
        print('value 1 is smaller')
if a>b:
        print('value 1 is bigger')
```

Answer:

```
D:\python>python exercise4.py
enter a value 1:453
enter a value 2:777
value 1 is smaller
```

2) Accept one integer value from the user; check whether entered number is divisible by 5 or not.

```
a=int(input('enter a number:'))
if a%5==0:
        print('the number is divisible by 5')
else:
        print('the number is not divisible by 5')
```

Answer:

```
D:\python>python exercise4.py
enter a number:305
the number is divisible by 5
```

3) Accept one integer value from the user; check whether entered number is between 0-100 or not.

```
a=int(input('enter the number:'))
if a>=0 and a<=100:
        print('the number is between 0 to 100')
else:
        print('the number is not between 0 to 100')
```

Answer:

```
D:\python>python exercise4.py
enter the number:100
the number is between 0 to 100

D:\python>python exercise4.py
enter the number:777
the number is not between 0 to 100
```

4) Accept one integer value from the user; display the length of the entered number, also display that the entered number is of four digits or not.

```
a=input('enter number:')
print(len(a))
if len(a)==4:
        print('the number is four digit')
else:
        print('the number is not four digit')
```

Answer:

```
D:\python>python exercise4.py
enter number:4566
4
the number is four digit

D:\python>python exercise4.py
enter number:34567
5
the number is not four digit
```

5) Accept one integer value from the user; display appropriate day of the week.

```
a=int(input('enter a number between 0-7:'))
if a==1:
        print('sunday')
```

```
elif a==2:
        print('monday')
elif a==3:
        print('tuesday')
elif a==4:
        print('wednesday')
elif a==5:
        print('thursday')
elif a==6:
        print('friday')
elif a==7:
        print('saturday')
else:
        print('please enter a number between 0 to 7')
```

Answer:

```
D:\python>python exercise4.py
enter a number between 0-7:9
please enter a number between 0 to 7

D:\python>python exercise4.py
enter a number between 0-7:6
friday
```

6) Take choice from the user, and perform the arithmetic operation as per the choice.
Choices: 1) Addition, 2) Subtraction, 3) Multiplication 4) Division

```
no1=int(input('enter number:'))
no2=int(input('enter number:'))
print('addition is:',no1+no2)
print('subtraction is:',no1-no2)
print('multiplication is:',no1*no2)
print('division is:',no1/no2)
```

Answer:

```
D:\python>python exercise4.py
```

```
enter number:456
enter number:654
addition is: 1110
subtraction is: -198
multiplication is: 298224
division is: 0.6972477064220184

D:\python>python exercise4.py
enter number:6
enter number:5
addition is: 11
subtraction is: 1
multiplication is: 30
division is: 1.2
```

7) Accept the string from the user; display the count of vowels and consonants.

```
string=str.lower(input('enter the string:'))
vowel=0
consonant=0
for a in string:
        if a=='a' or a=='e' or a=='i' or a=='o' or a=='u':
                vowel=vowel+1
        else:
                consonant=consonant+1
print('the count of vowel in the string:',vowel)
print('the count of consonant in the string:',consonant)
```

Answer:

```
D:\python>python exercise4.py
enter the string:krishna
the count of vowel in the string: 2
the count of consonant in the string: 5
```

8) Accept one integer value from the user; display the table of it.

```
num=int(input('enter the number for which you want to print the table of:'))
counter=1
print('the table of:',num)
while counter<=10:
```

```
        ans=num*counter
        print(num,'X',counter,'=',ans)
        counter+=1
```

Answer:

```
D:\python>python exercise4.py
enter the number for which you want to print the table of:25
the table of: 25
25 X 1 = 25
25 X 2 = 50
25 X 3 = 75
25 X 4 = 100
25 X 5 = 125
25 X 6 = 150
25 X 7 = 175
25 X 8 = 200
25 X 9 = 225
25 X 10 = 250
```

9) Display square and cube of numbers 1-10.

```
print('Square:')
number=1
while(number<=10):
        print(number,'\t',number**2)
        number+=1
print('\n Cube:')
number=1
while(number<=10):
        print(number,'\t',number**3)
        number+=1
```

Answer:

```
D:\python>python exercise4.py
Square:
1       1
2       4
3       9
4       16
5       25
6       36
7       49
8       64
9       81
10       100

 Cube:
1       1
2       8
3       27
4       64
5       125
6       216
7       343
8       512
9       729
10       1000
```

10) Accept string from the user; convert the string to upper case.

```
string=str(input('Enter the string:'))
print(string.upper())
```

Answer:

```
D:\python>python exercise4.py
Enter the string:atmiya
ATMIYA
```

11) Display the following output using loop:

i. 1 to 10

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```
for i in range(1, 11):
    print(i, end=" ")
print()
```

 # ii. 10 to 1

```
for i in range(10, 0, -1):
    print(i, end=" ")
print()
```

 # iii. 1 3 5 7 9

```
for i in range(1, 10, 2):
    print(i, end=" ")
print()
```

 # iv. 2 4 6 8 10

```
for i in range(2, 11, 2):
    print(i, end=" ")
print()
```

Answer:

```
D:\python>python exercise4.py
1 2 3 4 5 6 7 8 9 10
10 9 8 7 6 5 4 3 2 1
1 3 5 7 9
2 4 6 8 10
```

12) Print 1 2 4 8 16 32 64 128 256 512 1024

```
num = 1
for _ in range(11):
    print(num, end=" ")
    num *= 2
```

Answer:

```
D:\python>python exercise4.py
1 2 4 8 16 32 64 128 256 512 1024
```

13) Accept the number from the user; display the table of that number.

```
num = int(input("Enter a number: "))
print("\n table of", num)
for i in range(1, 11):
    print(num, "x", i, "=", num * i)
```

Answer:

```
D:\python>python exercise4.py
Enter a number: 49

 table of 49
49 x 1 = 49
49 x 2 = 98
49 x 3 = 147
49 x 4 = 196
49 x 5 = 245
49 x 6 = 294
49 x 7 = 343
49 x 8 = 392
49 x 9 = 441
49 x 10 = 490
```

14) Accept numbers from the user; display the sum of the entered numbers.

```
a=int(input('enter first number:'))
b=int(input('enter second number:'))
sum=a+b
print('sum of two number is:',sum)
```

Answer:

```
D:\python>python exercise4.py
enter first number:3
enter second number:3
sum of two number is: 6
```

15) Accept numbers from the user; display the count of the entered numbers.

```
n=int(input("Enter number:"))
count=0
while(n>0):
    count=count+1
    n=n//10
print("The number of digits in the number are:",count)
```

Answer:

```
D:\python>python exercise4.py
Enter number:123445667765
The number of digits in the number are: 12
```

16) Accept numbers from the user; find and display number of zeros available in the number.

```
number = input("Enter a number: ")
zero_count = 0
for digit in number:
    if digit == '0':
        zero_count += 1
print("Number of zeros in the input number:", zero_count)
```

Answer:

```
D:\python>python exercise4.py
Enter a number: 2 3 4 5 0 0 8 0 6 0
Number of zeros in the input number: 4
```

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17) Accept an integer from the user; tell user that whether entered number is even or odd.

Required output:
Enter the number: 7
7 is an odd number
Do you want to check another number? Y
Enter the number: 2
2 is an even number
Do you want to check another number? N

```
while True:
    number = int(input("Enter the number: "))
    if number % 2 == 0:
        print(number,"number is an even number")
    else:
        print(number,"number is an odd number")

    check_another = input("Do you want to check another number? (Y/N): ")
    if check_another.lower() != 'y':
        break
```

Answer:

```
D:\python>python exercise4.py
Enter the number: 2
2 number is an even number
Do you want to check another number? (Y/N): y
Enter the number: 5
5 number is an odd number
Do you want to check another number? (Y/N): n
```