WEEK-2

1. Write a python program that takes 2 numbers as command line arguments and prints its product.

Source code:

```
a=int(input("enter the first number"))
b=int(input("enter the second number"))
product=a*b
print "product of two numbers",product
```

Output:

Description:

The **input()** function takes input from the user and returns it. The **int()** function converts the specified value into an integer number. The product of the two number

s can be calculated using "*" operator in Python. Here we are going to accept two integer input from user and then find product of the accepted numbers. We will store the product in a variable and then finally print the value.

2. Write a program to perform different Arithmetic Operations on numbers in Python

Source code:

```
a=int(input("Enter a value")); #input() takes data from console at runtime as string.
b=int(input("Enter b value")); #typecast the input string to int.
print("Addition of a and b ",a+b);
print("Subtraction of a and b ",a-b);
print("Multiplication of a and b ",a*b);
print("Division of a and b ",a/b);
print("Remainder of a and b ",a%b);
print("Exponent of a and b ",a**b); #exponent operator (a^b)
print("Floar division of a and b ",a//b); # floar division
```

Output:

```
E:\Python>python week2.py
Enter a value3
Enter b value2
Addition of a and b  5
Subtraction of a and b  1
Multiplication of a and b  6
Division of a and b  1.5
Remainder of a and b  1
Exponent of a and b  9
Floar division of a and b  1
```

3. Write a python script to print the current date in the following format “Sun May 29 02:26:23 IST 2017”

Source code:

```
import time;
ltime=time.localtime();
print(time.strftime("%a %b %d %H:%M:%S %Z %Y",ltime));
```

Output:

```
E:\Python>python week4.py
Sat Mar 06 14:52:49 India Standard Time 2021
```

Description:

Datetime module, which provides various functions and classes for working with dates and times. It then gets the current date and time using the now() function of the datetime class. Finally, it formats the date and time as a string using the strftime() function, which takes a format string as an argument.

4. Write a program to create, concatenate and print a string and accessing sub-string from a given string.

Source code:

```
s1=input("Enter first String : ");
s2=input("Enter second String : ");
print("First string is : ",s1);
print("Second string is : ",s2);
print("concatenations of two strings :",s1+s2);
print("Substring of given string :",s1[1:4]);
```

Output:

```
E:\Python>python week3.py
Enter first String : COMPUTER-
Enter second String : SCIENCE
First string is :  COMPUTER-
Second string is :  SCIENCE
concatenations of two strings : COMPUTER-SCIENCE
Substring of given string : OMP
```

Description:

String: A String is a sequence of characters. Strings can be created by enclosing characters inside a single quote or double quotes. Even triple quotes can be used in Python but generally used to represent multiline strings and docstrings.

Creating a string in Python involves assigning a sequence of characters to a variable. This can be done using single quotes or double quotes

Concatenating strings in Python involves combining two or more strings together. This can be done using the + operator

Printing a string in Python is done using the print function

Accessing a sub-string from a given string in Python involves selecting a subset of characters from the original string.