

Lab 01: Introduction to Programming Fundamental

Program 01:

In [1]:

```
x = int(input("Enter x: "))
y = int(input("Enter y: "))
sum = x+y
average = sum/2
print('The average of two number is:', average)
```

Enter x: 4
Enter y: 6
The average of two number is: 5.0

Program 02:

In [2]:

```
length = int(input("enter length: "))
width = int(input("enter width: "))
Area = length*width
print("The area of rectangle is:", Area)
```

enter length: 5
enter width: 5
The area of rectangle is: 25

Program 03:

In [3]:

```
name = str(input("what's your name: "))
age = int(input("How old are you: "))
year = str((2019-age)+100)
print(name + " will be 100 year old in the year " + year)
```

what's your name: Bilal
How old are you: 18
Bilal will be 100 year old in the year 2101

Program 04:

In [4]:

```
print("Twinkle, twinkle, little star, \n\tHow I wonder what you are! \n\t\tUp above the world so high, \n\t\t\tLike a diamond in the sky. \nTwinkle, twinkle, little star, \n\tHow I wonder what you are!")
```

```
Twinkle, twinkle, little star,  
    How I wonder what you are!  
        Up above the world so high,  
        Like a diamond in the sky.  
Twinkle, twinkle, little star,  
    How I wonder what you are!
```

Program 05:

In [5]:

```
import datetime  
now = datetime.datetime.now()  
print("Current date and time : ")  
print(now.strftime("%Y-%m-%d %H:%M:%S"))
```

```
Current date and time :  
2019-12-28 04:53:30
```

Program 06:

In [6]:

```
from math import pi  
r = float(input("Enter the radius of a circle : "))  
area = (pi)*(r)**2  
print("The area of the circle with radius " + str(r) + " is " + str(pi * r**2))
```

```
Enter the radius of a circle : 4  
The area of the circle with radius 4.0 is 50.26548245743669
```

Program 07:

In [7]:

```
fname = input("Enter your first name: ")  
lname = input("Enter your last name: ")  
print("Hello " + lname + " " + fname)
```

```
Enter your first name: Mohammed  
Enter your last name: Bilal  
Hello Bilal Mohammed
```

Program 08:

In [8]:

```
import calendar
y = int(input("Enter the year: "))
m = int(input("Enter the month: "))
print(calendar.month(y, m))
```

Enter the year: 2019

Enter the month: 12

December 2019

Mo	Tu	We	Th	Fr	Sa	Su
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

In []: