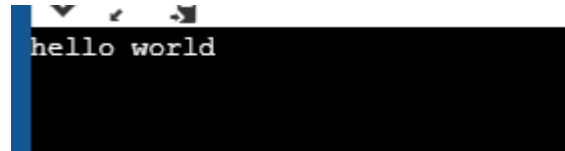


Practical 1

Print Hello World.

```
print('hello world')
```

Output:-

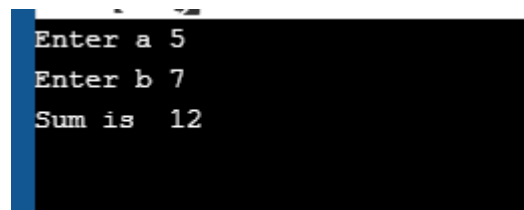
A terminal window with a black background and a blue vertical bar on the left. It displays the text "hello world" in a white monospaced font.

Practical 2

To display the sum of two numbers

```
a=int(input('Enter a '))
b=int(input('Enter b '))
print('Sum is ',a+b)
```

Output:-

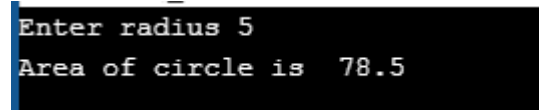
A terminal window with a black background and a blue vertical bar on the left. It displays three lines of text in a white monospaced font: "Enter a 5", "Enter b 7", and "Sum is 12".

Practical 3

Calculate area of circle.

```
rad=int(input('Enter radius '))
pi=3.14
print('Area of circle is ',pi*rad**2)
```

Output:-

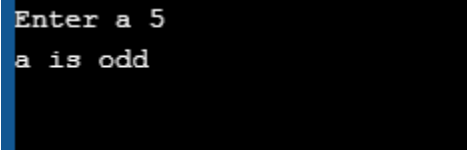
A terminal window with a black background and a blue vertical bar on the left. It displays two lines of text in a white monospaced font: "Enter radius 5" and "Area of circle is 78.5".

Practical 4

Accept a number from keyboard and test whether the given number is even or odd.

```
a=int(input('Enter a '))
if a%2==0:
    print('a is even')
else:
    print('a is odd')
```

Output:-



```
Enter a 5
a is odd
```

Practical 5

To display numbers from 1 to 10 using while loop.

```
i = 1
while i <= 10:
    print(i)
    i += 1
```

Output:-



```
1
2
3
4
5
6
7
8
9
10
```

Practical 6

To display even numbers between X and Y

```
x,y=map(int,input('enter x & y :').split(' '))
for i in range(x,y):
    if i%2==0:
        print(i)
```

Output:-

```
enter x & y :5 15
6
8
10
12
14
```

Practical 7

To display the elements of a list using for loop.

```
mylist=['abc','def','ghi','jkl']
for i in mylist:
    print(i)
```

Output:-

```
abc
def
ghi
jkl
```

Practical 8

Draw following patterns using nested loops.

```
*
* *
* * *
```

(a)

```
rows = int(input("Enter number of rows "))
for i in range (0, rows):
    for j in range(0, i + 1):
        print("*", end=' ')
    print("")
```

Output:-

```
Enter number of rows 3
*
**
***
```

1

12

123

(b)

```
rows = int(input("Enter number of rows "))
for i in range(1, rows+1):
    for j in range(1, i + 1):
        print(j, end="")
    print("")
```

Output:-

```
Enter number of rows 3
1
12
123
```

*

* *

* * *

(c)

```
size = int(input("Enter number of size "))
m = (2 * size) - 1
for i in range(0, size):
    for j in range(0, int(m/2)+1):
        print(end=" ")
    m = m - 2
    for j in range(0, i + 1):
        print("*", end=" ")
    print(" ")
```

Output:-

```
Enter number of size 3
  *
 * *
* * *
```

1

2 2

3 3 3

(d)

```

size = int(input("Enter number of size "))
m = (2 * size) - 1
for i in range(1, size+1):
    for j in range(1, m):
        print(end=" ")
    m = m - 2
    for j in range(1, i + 1):
        print(i, end=' ')
    print(" ")

```

Output:-

```

Enter number of size 3
  1
 2 2
3 3 3

```

Practical 9

Write a Python function to swap two numbers.

```

def swap_num(a,b):
    a,b=b,a
    return a,b

print(swap_num(5,7))

```

Output:-

```

(7, 5)

```

Practical 10

Write a Python function to find the greatest of 3 numbers.

```

def gretest_num(a,b,c):
    if a>b and a>c:
        print('a is greater')
    elif b>a and b>c:
        print('b is greater')
    elif c>b and c>a:
        print('c is greater')
    else:
        print('Wrong input')

a,b,c = 5,7,9
gretest_num(a,b,c)

```

Output:-

