

# Programming Language Course Python

## Assignment - 1

TEJASHWINI M G

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main.py Shell

```
1 print("Tejashwini M G ")
2 num = 29
3
4 flag = False
5
6 if num == 1:
7     print(num, "is not a prime number"
8         )
9
10 elif num > 1:
11     for i in range(2, num):
12         if (num % i) == 0:
13             flag = True
14             break
15
16
17
18 if flag:
19     print(num, "is not a prime
20         number")
21 else:
22     print(num, "is a prime number"
23         )
```

Run

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main.py Shell

```
Tejashwini M G
29 is a prime number
>
```



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main.py Shell

```
1 print ("Tejashwini M G ")
2
3 nterms = int(input("How many terms? "))
4
5
6 n1, n2 = 0, 1
7 count = 0
8
9
10 if nterms <= 0:
11     print("Please enter a positive integer")
12
13 elif nterms == 1:
14     print("Fibonacci sequence upto", nterms, ":")
15     print(n1)
16
17 else:
18     print("Fibonacci sequence:")
19     while count < nterms:
20         print(n1)
21         nth = n1 + n2
22
23         n1 = n2
24         n2 = nth
25         count += 1
```

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main.py Shell

```
Tejashwini M G
How many terms? 10
Fibonacci sequence:
0
1
1
2
3
5
8
13
21
34
> |
```

CS



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main.py

Shell

▶

```
1 print ("Tejashwini M G ")
2
3 import random
4
5 print(random.randint(0,9))
6
```

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Shell

▶

```
Tejashwini M G
8
>
```



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main.py Shell ▶

```
1 print ("Tejashwini M G ")
2
3 num = 1234
4 reversed_num = 0
5
6 while num != 0:
7     digit = num % 10
8     reversed_num = reversed_num * 10 +
        digit
9     num //= 10
10
11 print("Reversed Number: " + str
    (reversed_num))
```

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main.py Shell ▶

```
Tejashwini M G
Reversed Number: 4321
> |
```



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main.py Shell

```
1 print ("Tejashwini M G ")
2
3 num = float(input("Enter a number: "))
4 if num > 0:
5     print("Positive number")
6 elif num == 0:
7     print("Zero")
8 else:
9     print("Negative number")
10
```

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main.py Shell

```
Tejashwini M G
Enter a number: 8
Positive number
> |
```



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main.py Shell

```
1 print ("Tejashwini M G ")
2
3 num = int(input("Enter a number: "))
4 if (num % 2) == 0:
5     print("{0} is Even".format(num))
6 else:
7     print("{0} is Odd".format(num))
8
```

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main.py Shell

```
Tejashwini M G
Enter a number: 45
45 is Odd
> |
```



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main.py Shell

```
1 print ("Tejashwini M G ")
2
3 numbers = [1,2,3,4,5,1,4,5]
4
5
6 Sum = sum(numbers)
7
8 print(Sum)
9
10
11 Sum = sum(numbers, 10)
12
13 print(Sum)
```

Run

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main.py Shell

```
Tejashwini M G
25
35
>
```



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main.py Shell

```
1 print ("Tejashwini M G ")
2 def compute_hcf(x, y):
3
4
5     if x > y:
6         smaller = y
7     else:
8         smaller = x
9     for i in range(1, smaller+1):
10         if((x % i == 0) and (y % i ==
11             0)):
12             hcf = i
13         return hcf
14 num1 = 54
15 num2 = 24
16
17 print("The H.C.F. is", compute_hcf
18     (num1, num2))
```

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main.py Shell

```
Tejashwini M G
The H.C.F. is 6
> |
```



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main.py

Shell

▶

```
1 print ("Tejashwini M G ")
2
3 num1 = 1.5
4
5 num2 = 6.3
6
7 sum = num1 + num2
8
9 print('The sum of {0} and {1} is {2}'
    .format(num1, num2, sum))
10
```

Run



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main.py

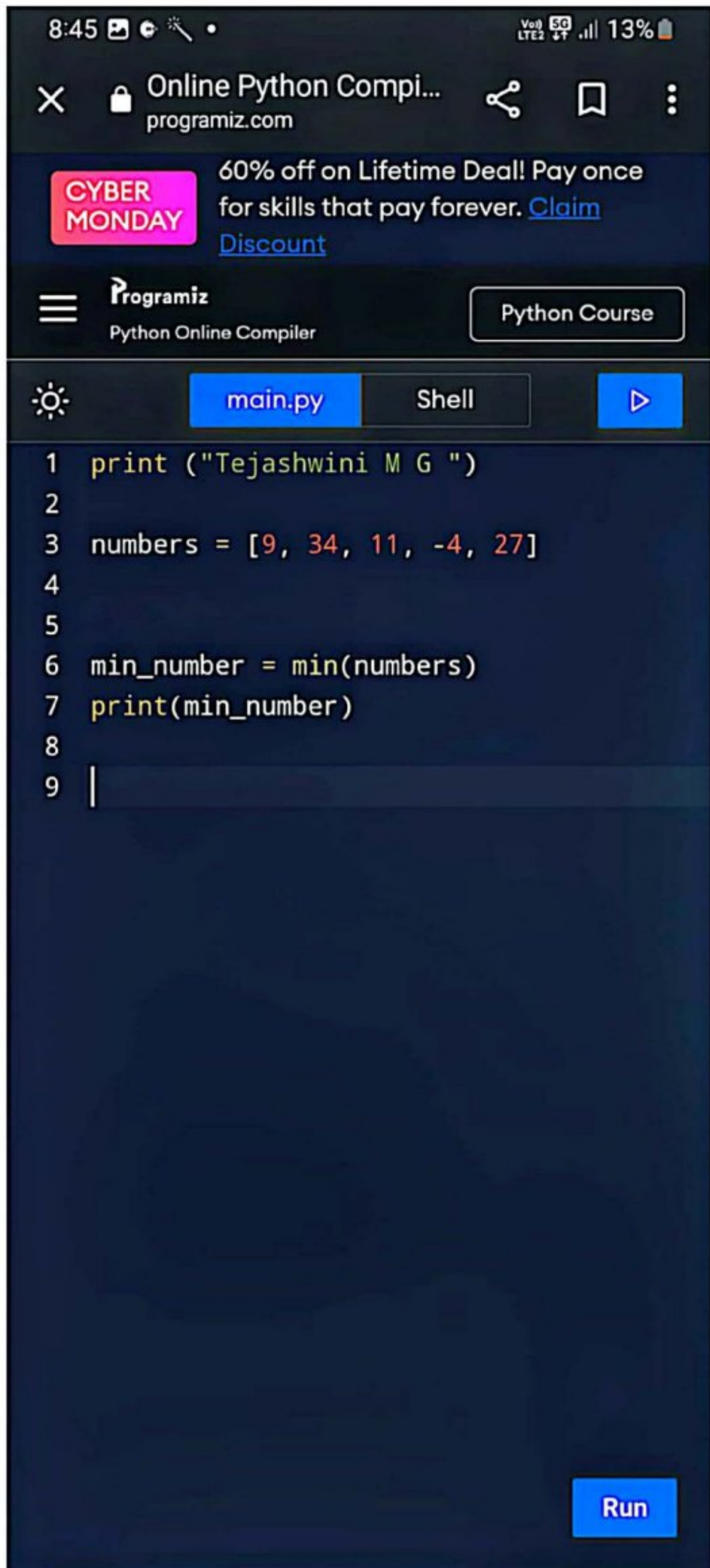
Shell

▶

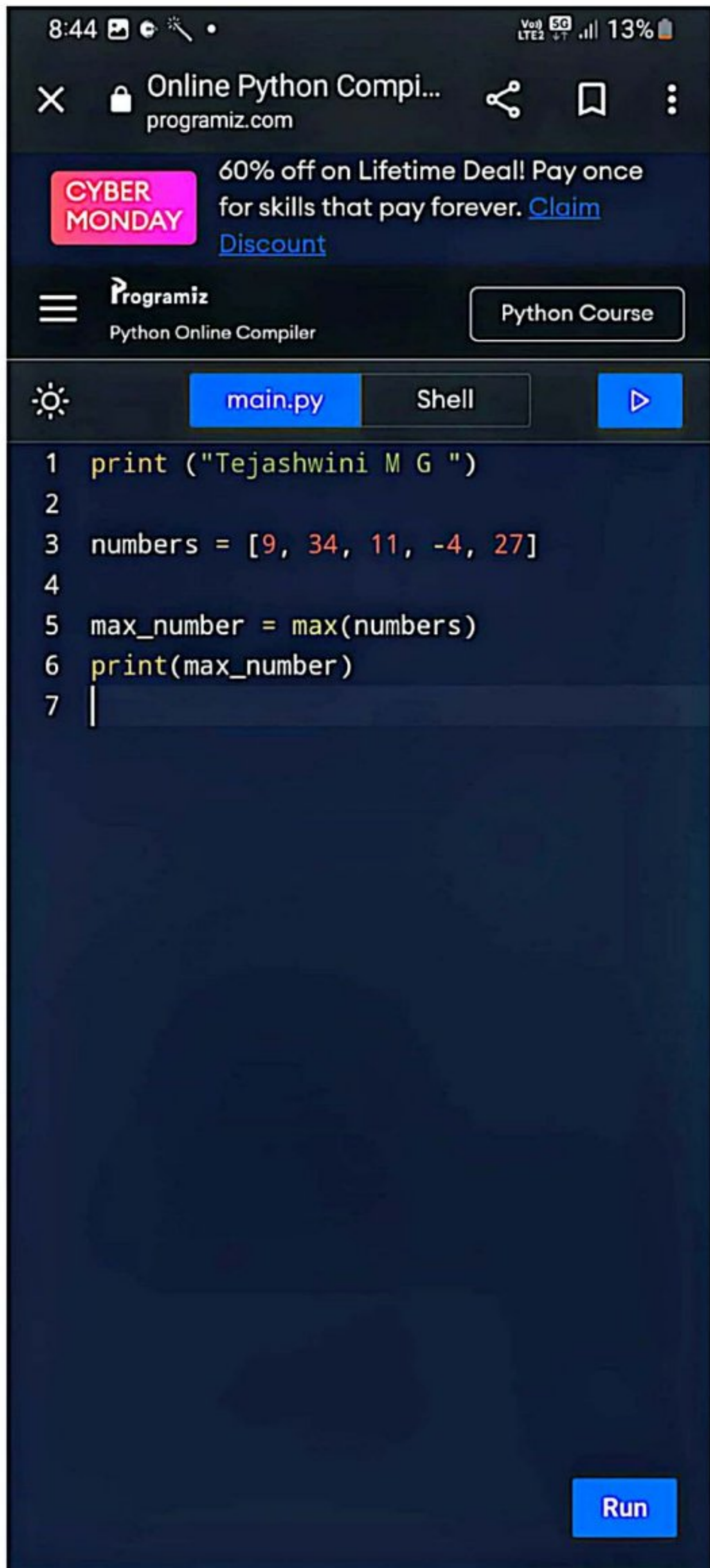
```
Tejashwini M G
The sum of 1.5 and 6.3 is 7.8
> |
```













8:42 13%

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main.py Shell

```
1 print ("Tejashwini M G ")
2 num = 7
3
4
5 factorial = 1
6
7
8 if num < 0:
9     print("Sorry, factorial does not exist for negative numbers")
10 elif num == 0:
11     print("The factorial of 0 is 1")
12 else:
13     for i in range(1,num + 1):
14         factorial = factorial*i
15     print("The factorial of",num,"is",factorial)
16
```

Run

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main.py Shell

```
Tejashwini M G
The factorial of 7 is 5040
> |
```



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main.py

Shell

▶

```
1 print ("Tejashwini M G ")
2 |
3 my_str = 'aIbohPhoBiA'
4
5
6 my_str = my_str.casefold()
7
8
9 rev_str = reversed(my_str)
10
11 if list(my_str) == list(rev_str):
12     print("The string is a palindrome."
13         )
14 else:
15     print("The string is not a
16         palindrome.")
```

Run



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main.py

Shell

▶

```
Tejashwini M G
The string is a palindrome.
> |
```





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main.py

Shell

▶

```
1 print ("Tejashwini M G ")
2
3 x = 5
4 y = 10
5
6 temp = x
7 x = y
8 y = temp
9
10 print('The value of x after swapping:
    {}'.format(x))
11 print('The value of y after swapping:
    {}'.format(y))
12 |
```

Run



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main.py

Shell

▶

```
Tejashwini M G
The value of x after swapping: 10
The value of y after swapping: 5
> |
```

