

PROGRAMMING LANGUAGE COURSE

Programming Language Course Python

Assignment - 1

Yashaswini S

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Even or Odd

Yashaswini S

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```
[ ]: a = 10
      if (a%2) == 0:
          print("a is even")
      else:
          print ("a is odd")
```

a is even

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Yashaswini S

Positive or Negative number

```
[2]: a = 21
      if(a%3) == 0:
          print("a is positive")
```

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```
print("a is positive")
else:
    print("a is negative")
```



a is positive

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main.py Shell ▶

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

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```
Yashaswini S
Fibonacci
How many terms? 5
Fibonacci sequence:
0
1
1
2
3
>
```

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main.py

Shell

▶

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

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▶

```
Yashaswini S
Prime number
29 is a prime number
> |
```

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main.py

Shell



```
1 print("Yashaswini S")
2 print("Swapping of two variables")
3 x = 5
4 y = 10
5 temp = x
6 x = y
7 y = temp
8
9 print('The value of x after swapping:
    {}'.format(x))
10 print('The value of y after swapping:
    {}'.format(y))
11 |
```

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main.py

Shell



```
Yashaswini S
Swapping of two variables
The value of x after swapping: 10
The value of y after swapping: 5
> |
```


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main.py

Shell



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

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main.py

Shell



```
Yashaswini S
palindrome or not
The string is a palindrome.
> |
```

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main.py

Shell



```
1 print("Yashaswini S")
2 print ("Sum of two numbers")
3 num1 = 1.5
4 num2 = 6.3
5
6
7 sum = num1 + num2
8
9
10 print('The sum of {0} and {1} is {2}'
       .format(num1, num2, sum))
11
```

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main.py

Shell



```
Yashaswini S
Sum of two numbers
The sum of 1.5 and 6.3 is 7.8
> |
```


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main.py

Shell



```
1 print("Yashaswini S")
2 print("Maximum of numbers")
3 numbers = [9, 34, 11, -4, 27]
4
5 max_number = max(numbers)
6 print(max_number)
7
```

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Shell



```
Yashaswini S
Maximum of numbers
34
>
```

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Shell



```
1 print ("Yashaswini S")
2 print ("Reverse number in string")
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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Shell



```
Yashaswini S
Reverse number in string
Reversed Number: 4321
> |
```

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main.py

Shell



```
1 print ("Yashaswini S")
2 print ("Factorial of a number")
3 num = 7
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
```

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main.py

Shell



```
Yashaswini S
Factorial of a number
The factorial of 7 is 5040
> |
```

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main.py

Shell



```
1 print ("Yashaswini S")
2 print ("Guess number using random")
3 import random
4
5 print(random.randint(0,9))
6
```

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main.py

Shell



```
Yashaswini S
Guess number using random
7
>
```


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main.py Shell ▶

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

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```
Yashaswini S
GCD or HCF of two numbers
The H.C.F. is 6
> |
```


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main.py

Shell



```
1 print("Yashaswini S")
2 print ("Minimum of numbers")
3 numbers = [9, 34, 11, -4, 27]
4
5 min_number = min(numbers)
6 print(min_number)
7
```

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main.py

Shell



```
Yashaswini S
Minimum of numbers
-4
>
```