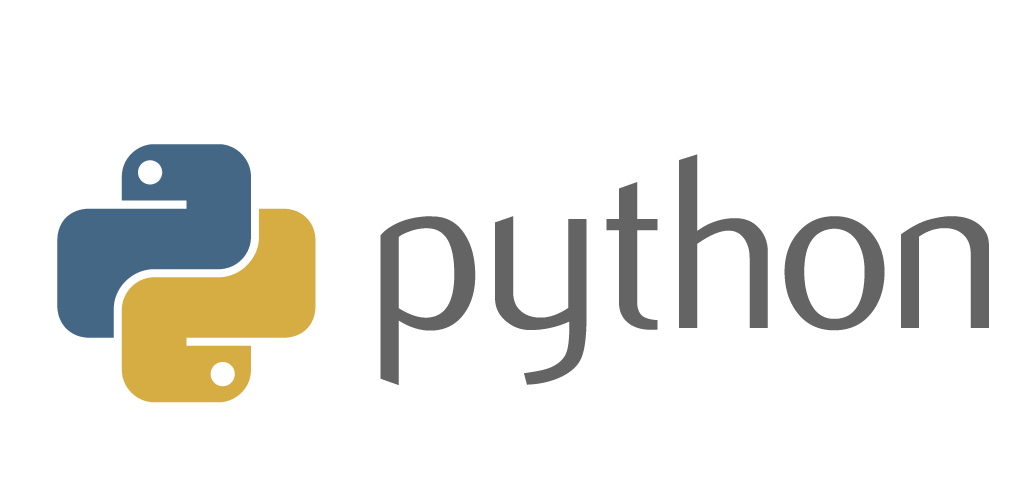
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| --- |
| David School |
| Python Project File |
| Github : devasheeshG |
| Github Repository Link : https://github.com/devasheeshG/CS-File-Feb-2021-XI  Email : [swastik.mishra.c322.smart@gmail.com](mailto:swastik.mishra.c322.smart@gmail.com) |



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| Devasheesh Mishra  2-28-2021 |

**Personal File**

Q1- Write a program that takes a number and checks whether the given number is even or odd.

## Source Code

# Python program to check if the input number is odd or even.

# A number is even if division by 2 gives a remainder of 0.

# If the remainder is 1, it is an odd number.

num = int(input("Enter a number: "))

if (num % 2) == 0:

print("{0} is Even".format(num))

else:

print("{0} is Odd".format(num))

**Output 1**

Enter a number: 43

43 is Odd

**Output 2**

Enter a number: 18

18 is Even

Q2-Write a program to accept three integers and print the largest of the three.

**Source Code**

# change the values of num1, num2 and num3 for a different result

num1 = 10

num2 = 14

num3 = 12

# uncomment following lines to take three numbers from user

#num1 = float(input("Enter first number: "))

#num2 = float(input("Enter second number: "))

#num3 = float(input("Enter third number: "))

if (num1 >= num2) and (num1 >= num3):

largest = num1

elif (num2 >= num1) and (num2 >= num3):

largest = num2

else:

largest = num3

print("The largest number is", largest)

**Output**

The largest number is 14.0

Q3. Write a program to print table of a given number by user.

**Source Code**

# Program published on https://beginnersbook.com

# Python Program to Print Multiplication Table of a Number

num = int(input("Enter the number: "))

print("Multiplication Table of", num)

for i in range(1, 11):

print(num,"X",i,"=",num \* i)

**Output:**

Enter the number: 6

Multiplication Table of 6

6 X 1 = 6

6 X 2 = 12

6 X 3 = 18

6 X 4 = 24

6 X 5 = 30

6 X 6 = 36

6 X 7 = 42

6 X 8 = 48

6 X 9 = 54

6 X 10 = 60

Q4. Write a program to calculate the factorial of the given number.

**Source Code**

num = 7

factorial = 1

# check if the number is negative, positive or zero

if num < 0:

print("Sorry, factorial does not exist for negative numbers")

elif num == 0:

print("The factorial of 0 is 1")

else:

for i in range(1,num + 1):

factorial = factorial\*i

print("The factorial of",num,"is",factorial)

**Output**

The factorial of 7 is 5040

Q5. Write a program to input a number and test if it is a prime number or not.

## Source Code

num = 407

# To take input from the user

#num = int(input("Enter a number: "))

# prime numbers are greater than 1

if num > 1:

# check for factors

for i in range(2,num):

if (num % i) == 0:

print(num,"is not a prime number")

print(i,"times",num//i,"is",num)

break

else:

print(num,"is a prime number")

# if input number is less than

# or equal to 1, it is not prime

else:

print(num,"is not a prime number")

**Output**

407 is not a prime number

11 times 37 is 407