

PYTHON WORKSHEET-1

In [ ]:

```
#QUESTION 1
#which of the following operators are used to calculate remainder in a division?

#ANSWER- (c) %
```

In [ ]:

```
#QUESTION 2
#In python 2//3 is equal to?

#ANSWER- (B)0
```

In [ ]:

```
#QUESTION 3
#In python 6<<2 is equal to

#ANSWER- (c)24
```

In [ ]:

```
#QUESTION 4
#In python 6&2 will give you which of the following as output?

6&2
```

In [ ]:

```
#ANSWER- (A)2
```

In [ ]:

```
#QUESTION 5
#What does the finally keyword denote in python?
#ANSWER- (C)The finally block will be executed no matter if the try block raises an error or not.
```

In [ ]:

```
#QUESTION 6
# What is raise keyword used for in python?
#ANSWER (A)It is used to raise an exception
```

In [ ]:

```
#QUESTION 8
#which of the following is a common use case of yeild keyword in python?
#ANSWER- (C)In defining a generator
```

In [ ]:

```
#QUESTION 9
#Which of the following are valid variable names?

#ANSWER- (A)_abc,(B)abc2
```

In [ ]:

```
#QUESTION 10
#Which of the following are the keywords in python

#ANSWER- (A)yeild , (B)raise
```

PROGRAMMING QUESTIONS

In [ ]:

```
# QUESTION 11- Write a program to find out the factorial of a number.
```

In [30]:

```
a=int(input("Enter a number"))
if a<0:
    print("Factorial does not exist for a negative number")
else:
    factorial=1
    for i in range(factorial,a+1):
        factorial=factorial*i
    print("The factorial of ",a," is ",factorial)
```

Enter a number5  
The factorial of 5 is 120

In [31]:

```
#QUESTION 12-Write a program to find if a number is prime or composite
```

In [36]:

```
a=int(input("Enter a number"))
if a<0:
    print("Factorial does not exist for a negative number")
else:
    factors=0
    for i in range(1,a+1):
        if a%i==0:
            factors=factors+1
    if factors>2:
        print("This is a composite number")
    else:
        print("This is a prime number")
```

Enter a number25  
This is a composite number

In [37]:

```
#QUESTION-13
#Write a python program to check whether a given string is pallindrome or not
```

In [52]:

```
string1=input("Enter a string")
string1=string1.upper()
string2=""
for i in string1:
    string2=i+string2
if string2==string1:
    print("this is a pallindrome string",string1)
else:
    print("This is not a pallindrome string",string1)
```

Enter a stringcivic  
this is a pallindrome string CIVIC

In [53]:

```
#QUESTION-14
#Write a python program to get the third side of right-angled triangle from two given sides.
```

In [62]:

```
import math
first_side=float(input("ENTER THE FIRST SHORTER SIDE OF THE TRIANGLE"))
second_side=float(input("ENTER THE SECOND SHORTER SIDE OF THE TRIANGLE"))
squares=math.pow(first_side,2)+math.pow(second_side,2)
third_side=math.sqrt(squares)
print("the third side is: ",third_side)
```

ENTER THE FIRST SHORTER SIDE OF THE TRIANGLE12  
ENTER THE SECOND SHORTER SIDE OF THE TRIANGLE9  
the third side is: 15.0

In [63]:

```
#QUESTION 15
#Write a python program to print the frequency of each of the characters present in a given string
```

In [65]:

```
string=input("ENTER A STRING")
frequency={}
for i in string:
    if i in frequency:
        frequency[i]=frequency[i]+1
    else:
        frequency[i]=1
print("Charecterwise frequency of ",string," is ",frequency)
```

ENTER A STRINGprakhar  
Charecterwise frequency of prakhar is {'p': 1, 'r': 2, 'a': 2, 'k': 1, 'h': 1}

PYTHON WORKSHEET-1 COMPLETED

In [ ]: