PYTHON WORKSHEET

Ans 1: C

Ans 2: B

Ans 3: C

Ans 4: A

Ans 5: D

Ans 6: C

Ans 7: A

Ans 8: C

Ans 9: A,C

Ans 10: A,B

Ans 11:

```python
n = int(input("Enter 1 number: "))

fact = 1

if n >= 1:

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

        fact = fact * i

print("factorial of ", n , " is : ", fact)
```

Ans 12:

```python
# A prime number is divisible by 1 and itself only.

# 1 is not a prime number

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

if num > 1:              # 1 is not a prime number

    for i in range(2, num):
```

```python
        if (num % i) == 0:

            # if it is divisible by any number other than itself and 1

            print(num, "is a COMPOSITE number")

            break

    else:

        print(num, "is a PRIME number")

elif num == 0 or 1:

    print(num, "is a neither prime nor composite number")

else:

    print(num, "-na-")
```

Ans 13:

```python
mstr = 'radar1'

mstr2 = ''

for i in range(len(mstr),0,-1):

    mstr2 += mstr[i-1]

if mstr==mstr2:

    print('String', mstr, 'is a palindrome')

else:

    print('String', mstr, 'is not a palindrome')
```

Ans 14:

```python
import math as m

x = 5   # one side

y = 13  # hypotenuse
```

```python
if y > x:

    print( m.sqrt(y*y-x*x))

else:

    print(m.sqrt(x*x-y*y))
```

Ans 15:

```python
mstr = 'radar1'

counter = int(0)

print(list(range(0,len(mstr))))

for i in range(0,len(mstr)):

    counter=0

    for j in range(0, len(mstr)):

        if mstr[j]== mstr[i]:

            counter+=1

    print(mstr[i], counter)
```