PYTHON – WORKSHEET 1

```
1. c
2. d
3. c
4. a
5. d
6. c
7. a
8. c
9. a, c
10. a, b
11.
           factorial_funcn = lambda n:n-1 + abs(n-1) and f(n-1)*n or 1
           factorial_funcn(3)
    Output: 6
12.
    def isprime(n):
      _isprime = False
      if n > 1:
        for i in range(2,n):
          if n%2 == 0:
            _isprime = True
            break
      else:
        _isprime = True
      if _isprime:
        print(n,"is not a prime number")
      else:
        print(n,"is a prime number")
```

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13.
    palindrome_fn = lambda x: f"{x} String is Palindrome" if x==x[::-1] else f"{x} String is not a
    palindrome"
14.
    import math
    a,b = [int(x) for x in input("Enter the 2 sides of the traingle").split()]
   while True:
      x = input('is one of the side hypotenuse? (yes or no)')
      if x == 'yes':
        print(math.sqrt(abs(a*a-b*b)))
        break
      elif x == 'no':
        print(math.sqrt(a*a+b*b))
        break
      else:
        print("invalid option...try again")
15.
    def get_char_freq(input_string):
      for char in input_string:
        if char in frequencies:
          frequencies[char] += 1
        else:
          frequencies[char] = 1
      return frequencies
```