1) C
2) B
3) C
4) A
5) A
6) C
7) A
8) C
9) A,C
10) A,B

11) factorial of a number overfitting problem.

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

12) whether a number is prime or composite.

```
n = int(input("Enter a number: "))
if n > 1:
 for i in range(2, int(n/2)+1):
  if (n % i) == 0:
   print(n, "is not a prime number")
   break
 else:
  print(n, "is a prime number")
else:
 print(n, "is not a prime number")
```

13) whether a given string is palindrome or not

```
string=input(("Enter word"))
if(string==string[::-1]):
    print("The letter is a palindrome")
else:
    print("The letter is not a palindrome")
```

14)third side of right-angled triangle from two given sides.

```
import math
a = float(input("Give side a: "))
b = float(input("Give side b: "))
c = math. sqrt(a ** 2 + b ** 2)
print("The length of the hypotenuse c is", c)
```

15) frequency of each of the characters present in a given string.

```python
string = input ("Enter the string ")
d = dict()
for i in string:
    if i in d:
        d[i] = d[i] + 1
    else:
        d[i] = 1
print(d)
```