1. Predict the output for the following code snippets:

```
[ ]
    print(0.1+0.2)
    print("1.8"+"2")
    print(87>78)
    print((0.1+0.2)==0.3)
    print("Predict " "Output" ,".....")
```

```
0.30000000000000004
1.82
True
False
Predict Output .....
```

2. Predict the output for the following code snippets:

```
[ ] print("Prints","multiple","messages\n")
    print("Concatenate "+" two strings\n")
    print(5+6+" adds two numbers\n")
```

```
Prints multiple messages

Concatenate  two strings

---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-2-8dfb88e8fb09> in <module>()
      1 print("Prints","multiple","messages\n")
```

```
print("Concatenate "+" two strings\n")
print(5+6+" adds two numbers\n")
```

```
Prints multiple messages

Concatenate  two strings

---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-2-8dfb88e8fb09> in <module>()
      1 print("Prints","multiple","messages\n")
      2 print("Concatenate "+" two strings\n")
----> 3 print(5+6+" adds two numbers\n")

TypeError: unsupported operand type(s) for +: 'int' and 'str'

SEARCH STACK OVERFLOW
```

3. Correct the given code snippets (only one change is allowed)

```
print("ba"+"na"*2)
print(r"C:\naresh\raju\abhi")
```

```
banana
C:\naresh\raju\abhi
```

4. Correct the given code snippets

```
print('Welcome to Python traing program'[-4::-4])
print('A series of characters designated as one object knows as a string'[2:18:5])
```

```
[ ] print('A series of characters designated as one object known as a string'[::-1][4::3])
    print('-----------')
    print('Welcome to Python traing program'[3:10][::-1])
    #At first it will reverse the string by[::-1]
    #next it will start printing from 4 th index and grabs every third position
    #first it will print from 3 to 10 position  hence we will get(come to) next it will reverse the string
```

```
taawkcbe  tgestrcoeeA
-----------
ot emoc
```

6. Predict the output for the given code snippet and justify the result a.

```
[ ] str1=True
    x=5>3
    print(str1==x)
    y=5>8
    print(str1==y)
    #str1==x value of 5>3 which is true,str1 is true.hence str1==x is true
    #str1==y value of y is 5>8 which is false,but str1 is true .hence,str1==y is false
```

```
True
False
```

b.

```
[ ] num=7
    Name="Michael Jackson"
    sear num=Name.find('el')
```

```
[ ] num=7
    Name="Michael Jackson"
    sear_num=Name.find('el')
    print(num>sear_num)
    #here the value of sear_num is the index number of 'e' in 'el' on its first occurrence which is 5.where 7>5
    #Hence, num>sear_num is True
```

```
True
```

7.Write a python code to get desired output Input string : p_phrase = "was it a car or a cat I saw" Output string : WAS I TAC A RO RAC A TI SAW

```
[ ] p_phrase='was it a car or a cat I saw'
    p=p_phrase.upper()[::-1]
    print(p)
```

```
WAS I TAC A RO RAC A TI SAW
```

8. Write a python code to print integer value : 946 Input string : A='1934567'

```
[ ] A='1934567'
    print(A[1::2])
```

```
946
```

9. Write a python code to get desired output

```
[ ] fake_phrase="Fake news has a knack for spreading like wild fire"
```

9. Write a python code to get desired output

```
[ ] fake_phrase="Fake news has a knack for spreading like wild fire"
    x=fake_phrase[16:40:].upper()[::-1]
    x.split()
```

```
['EKIL', 'GNIDAERPS', 'ROF', 'KCANK']
```

10. Write a python code to get desired output msg1 = "Facebook already uses AI to Filter Fake stories from the feeds of users" out = [Facebook , already, uses, AI, to, Filter, Fake, stories, from, the, feeds, of, users]

```
[ ] msg1="Facebook already uses AI to Filter Fake stories from the feeds of users"
    print(msg1.split())
```

```
['Facebook', 'already', 'uses', 'AI', 'to', 'Filter', 'Fake', 'stories', 'from', 'the', 'feeds', 'of', 'users']
```

11. Predict the output for given code snippet .Justify the result . msg2="Welcome to sr engineering college" x= write the logic to count the occurrance of o in msg2 - expected 3 y= write the logic to count the occurrance of r in msg2 - expected 2 msg2[y**x:(x**y+x+y):][::-1]

```
[ ] msg2="Welcome to sr engineering college"
    x=msg2.count('o')
    y=msg2.count('r')
    msg2[y**x:(x**y+x+y):][::-1]
    #x counts the occurance of o in msg2
    #next step the slicing will br taking place with index value y**x as 8 and stop position x**y+x+y==14
    #to str and the string will be reversed
```

```
[ ] #next step the slicing will br taking place with index value y**x as 8 and stop position x**y+x+y==14
    #to str and the string will be reversed
```

```
' rs ot'
```

12 a.

```
[ ] num1,num2="94","30"
    data="As per Census 2011, Gender ratio of India is 943 females per 1000 males"
    num1+num2[0] in data
    #num1 is '94', num2[0] is '3'. num1+num2[0] is '943' which is present in data. Hence, output will be True
```

```
True
```

12 b.

```
[ ] print(data[:45],print(int(num1)+int(num2)))
    # At First it will convert num1,num2 to int and add them
    #Next by slicing it will go to 44th index position will print  'As per Census 2011, Gender ratio of India is '
    #None is printed because there is no return value for the print(int(num1)+int(num2)) function
```

```
124
As per Census 2011, Gender ratio of India is  None
```

13.

```
[ ] M=float(input('Please enter the amount of water (kilograms) : '))
    initialTemperature=float(input('Please enter the initial temperature of water (degree celsius) : '))
    finalTemperature=float(input('Please enter the final temperature of water (degree celsius) : '))
```

```
[ ] M=float(input('Please enter the amount of water (kilograms) : '))
    initialTemperature=float(input('Please enter the initial temperature of water (degree celsius) : '))
    finalTemperature=float(input('Please enter the final temperature of water (degree celsius) : '))
    Q = M * 4184 * (finalTemperature - initialTemperature)
    print(f'Energy required to heat the water = {Q} joules')
```

```
Please enter the amount of water (kilograms) : 25
Please enter the initial temperature of water (degree celsius) : 6
Please enter the final temperature of water (degree celsius) : 8
Energy required to heat the water = 209200.0 joules
```

14. You are required to generate a word similar to ZOO, X and Y that denote the number of Zs and Os respectively. The generated word similar to ZOO where Y= 2 * X

```
[ ] x=int(input('Enter number of x' ))
    y=x*2
    print(f"the word is {'z'*x+'o'*y}")
```

```
Enter number of x2
the word is zzoooo
```

15.

```
[ ] x=int(input('Enter x integer : '))
    y=int(input('Enter y integer : '))
    pow=x**y
    div=x//y
    print(pow)
    print(div)
```

```
print(pow)
print(div)
print(div^(x+y))
```

```
Enter 1st integer : 2
Enter 2nd integer : 6
64
0
8
```

```
```