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Python module 3 - Assignment

1. Consider a list (list = []). You can perform the following commands: insert i.e., Insert integer at position. print: Print the list. remove e: Delete the first occurrence of integer. append e: Insert integer at the end of the list. sort: Sort the list. pop: Pop the last element from the list. reverse: Reverse the list. Initialize your list and read in the value of followed by lines of commands where each command will be of the types listed above. Iterate through each command in order and perform the corresponding operation on your list.

Code:

```
a = int(input())
list = []
for i in range(0,a):
    ch = input().split()
    if ch[0] == "insert":
        list.insert(int(ch[1]),int(ch[2]))
    elif ch[0] == "print":
        print(list)
    elif ch[0] == "remove":
        list.remove(int(ch[1]))
    elif ch[0] == "append":
        list.append(int(ch[1]))
    elif ch[0] == "sort":
        list.sort()
    elif ch[0] == "pop":
        list.pop()
```

Output:

```
IDLE Shell 3.10.0                                                                                    –  □  ×
File  Edit  Shell  Debug  Options  Window  Help
    Python 3.10.0 (tags/v3.10.0:b494f59, Oct  4 2021, 19:00:18) [MSC v.1929 64 bit (AMD64)] on win32
    Type "help", "copyright", "credits" or "license()" for more information.
>>>
    ========================== RESTART: C:\Users\pradeep\Desktop\49621915012_Pradeep Rajadurai W.py ==========================
    7
    insert 1 10
    insert 2 15
    insert 3 5
    insert 5 30
    insert 4 35
    sort
    print
    [5, 10, 15, 30, 35]
>>>
                                                                                                    Ln: 14  Col: 0
```

2. Write a Calculator program in Python?

Code:

```python
while(True):
  print("\nCalculator:\n1.Add\n2.Subtract\n3.Multiplication\n4.Division\n5.Exit\n")
  print("Enter the choice...")
  n=int(input())
  if(n==5):
    break
  n1=int(input("Enter the First number\t:"))
  n2=int(input("Enter the second number\t:"))
  if(n==1):
    print("Answer : ",n1+n2)
  elif(n==2):
    print("Answer : ",n1-n2)
  elif(n==3):
    print("Answer : ",n1*n2)
  elif(n==4):
    print("Answer : ",n1/n2)
  else:
    break
```

3. Write a program to concatenate, reverse and slice a string?

Code:

```
s1="thatchaini"
s2="muthulakshmi"
print("String-1 : ",s1)
print("String-2 : ",s2)
print("Concatenate\t: ",s1+s2)
print("String reverse\t: ",s1[::-1])
print("String Slice\t: ",s2[2:4])
```

Output: