

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:

```
l=[35,30,52,30,112,38,99]
```

```
l.insert(4,115) #inserts 115 at 4
```

```
print(l)
```

```
l.remove(30) #removes the first occurrence of 30
```

```
print(l)
```

```
l.append(41) #inserts 41 at the end of the list
```

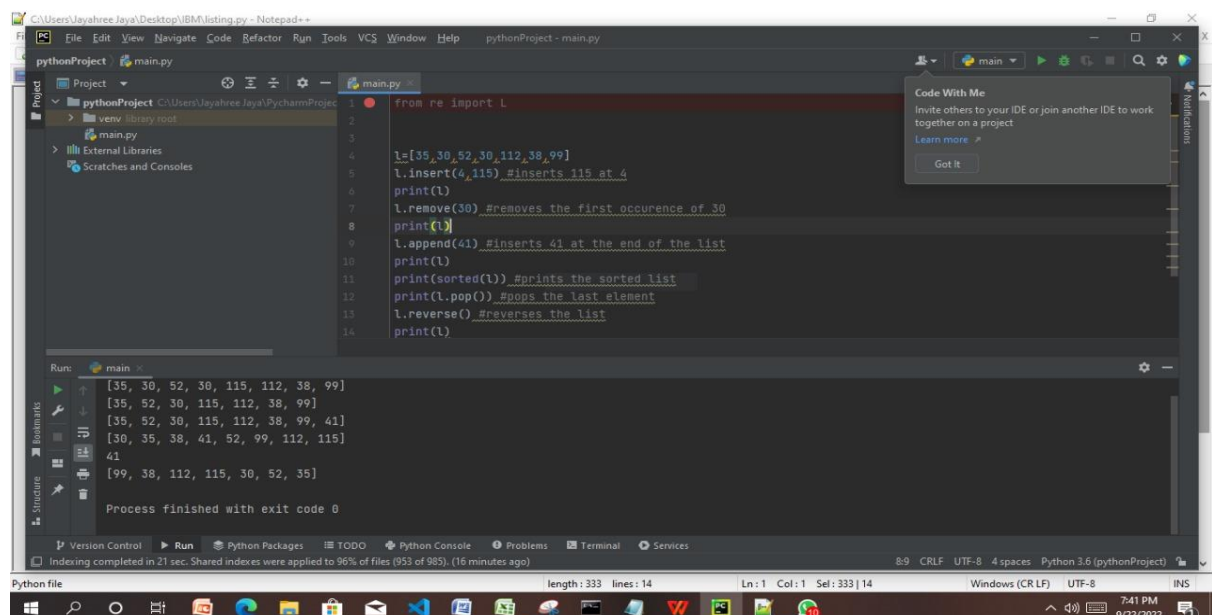
```
print(l)
```

```
print(sorted(l)) #prints the sorted list
```

```
print(l.pop()) #pops the last element
```

```
l.reverse() #reverses the list
```

```
print(l)
```



The screenshot shows a Python IDE with a file named 'main.py' containing the following code:

```
1 from re import L
2
3
4 l=[35,30,52,30,112,38,99]
5 l.insert(4,115) #inserts 115 at 4
6 print(l)
7 l.remove(30) #removes the first occurrence of 30
8 print(l)
9 l.append(41) #inserts 41 at the end of the list
10 print(l)
11 print(sorted(l)) #prints the sorted list
12 print(l.pop()) #pops the last element
13 l.reverse() #reverses the list
14 print(l)
```

The Run console shows the output of the code:

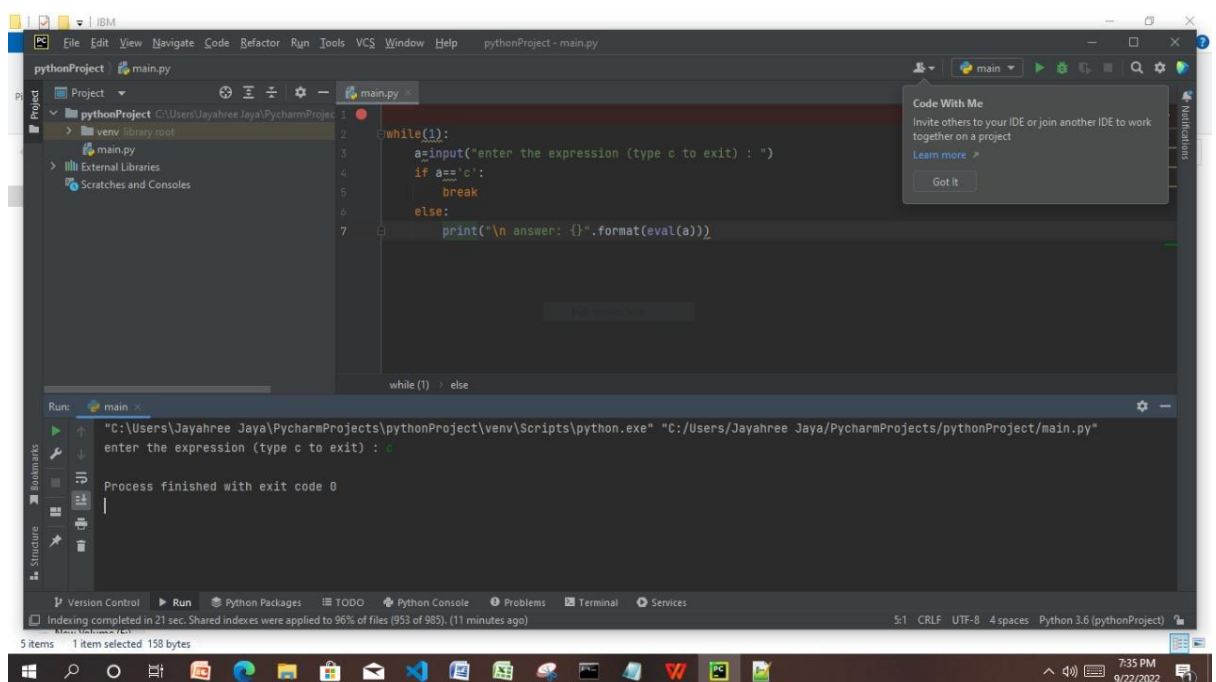
```
[35, 30, 52, 30, 115, 112, 38, 99]
[35, 52, 30, 115, 112, 38, 99]
[35, 52, 30, 115, 112, 38, 99, 41]
[30, 35, 38, 41, 52, 99, 112, 115]
41
[99, 38, 112, 115, 30, 52, 35]
```

The process finished with exit code 0.

2. Write a Calculator program in python?

CODE:

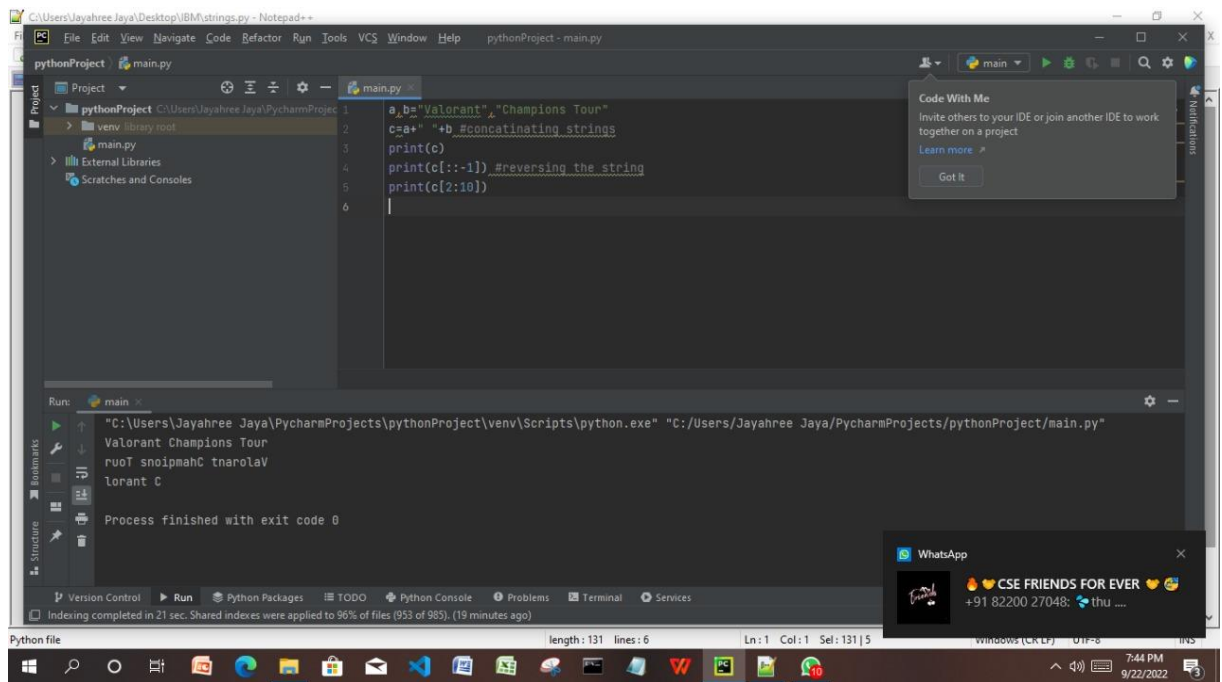
```
while(1):
    a=input("enter the expression (type c to exit) : ")
    if a=='c':
        break
    else:
        print("\n answer: {}".format(eval(a)))
```



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

CODE:

```
a,b="Valorant","Champions Tour"
c=a+" "+b #concatinating strings
print(c)
print(c[::-1]) #reversing the string
print(c[2:10])
```



4. Why is python a popular programming language ?

Python is beginner friendly due to its syntax, beginners can learn python easily than other programming languages like c,java etc..

therefore many people recommend beginners to start with pyhon as thier first programming language, that's why python is so popular.

5. What are the other Frameworks that can be used with python?

Some other popular frameworks are Django, Cherrypy, web2py, TurboGears, FastAPI etc..

6. Full form of WSGI?

Web server gateway interface.