

Assignment

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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.

PROGRAM:-

```
n=int(input("enter the list range"))
```

```
l=[]
```

```
for i in range(n):
```

```
    s=input()
```

```
    l.append(s)
```

```
print(l)
```

```
print("remove function")
```

```
s=input("enter a element to remove")
```

```
l.remove(s)
```

```
print(l)
```

```
s1=input("enter an element to append")
```

```
l.append(s1)
```

```
print(l)
```

```
print("sort")
```

```
l.sort()
```

```
print(l)
```

```
print("after pop")
```

```
l.pop()
```

```
print(l)
```

```
print("after reverse")
```

```
print(l[::-1])
```

2. Write a Calculator program in Python?

PROGRAM:-

```
def add(x, y):
    return x + y
def subtract(x, y):
    return x - y
def multiply(x, y):
    return x * y
def divide(x, y):
    return x / y
print("Select operation.")
print("1.Add")
print("2.Subtract")
print("3.Multiply")
print("4.Divide")
while True:
    choice = input("Enter choice(1/2/3/4): ")
    if choice in ('1', '2', '3', '4'):
        num1 = float(input("Enter first number: "))
        num2 = float(input("Enter second number: "))
        if choice == '1':
            print(num1, "+", num2, "=", add(num1, num2))
        elif choice == '2':
            print(num1, "-", num2, "=", subtract(num1, num2))
        elif choice == '3':
            print(num1, "*", num2, "=", multiply(num1, num2))
        elif choice == '4':
            print(num1, "/", num2, "=", divide(num1, num2))
        next_calculation = input("Let's do next calculation? (yes/no): ")
        if next_calculation == "no":
```

```
        break
    else:
        print("Invalid Input")
```

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

PROGRAM:-

```
s =input("enter a string")
print("concatenate")
s1=input("enter a string")
s+=s1
print(s)
print("reverse")
print(s[ : :-1])
print("slicing")
s3=int(input("enter the range under " + str(len(s))))
print(s[:s3])
```

4. Why is Python a popular programming language?

Python uses a simplified syntax with an emphasis on natural language, for a much easier learning curve for beginners. And, because Python is free to use and is supported by an extremely large ecosystem of libraries and packages, it's often the first-choice language for new developers.

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

pyramid, turbogear, web2py, cherrypy, flask, sanic, django

6. Full form of WSGI?

Web Server Gateway Interface- WSGI full form