

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