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Module 3 : Python Assignment

Department : Information Technology

1. Why is Python a popular programming language?

Python is a popular programming language because python is the best language to learn for the beginners and it supports wide range of applications from simple text processing to worldwide web browsers to games

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

- CubicWeb
- Django
- Flask
- AIOHTTP
- Dash
- Bottle
- CherryPy
- Falcon
- Pyramid etc.,

3. Full form of WSGI

Full form of WSGI is Web Server Gateway Interface

4. 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.

Ans:

```
if __name__ == '__main__':  
    N = int(input())  
    command=[]  
    for i in range(N):  
        command.append(input().split())  
  
    result=[]  
    for i in range(N):  
        if command[i][0]=='insert':  
            result.insert(int(command[i][1]),int(command[i][2]))  
        elif command[i][0]=='print':  
            print(result)  
        elif command[i][0]=='remove':  
            result.remove(int(command[i][1]))  
        elif command[i][0]=='append':  
            result.append(int(command[i][1]))  
        elif command[i][0]=='pop':  
            result.pop()  
        elif command[i][0]=='sort':  
            result.sort()  
        elif command[i][0]=='reverse':  
            result.reverse()
```

5. Write a Calculator program in Python?

Ans:

```
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")
```

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

Ans:

```
n1="aero"  
n2="plane"  
a=n1+n2  
print("concatenated string is:", a)
```

```
str=a  
print("Reversed string is:", str[::-1])
```

```
str='aeroplane'  
print("Sliced string is:", str[3:9])
```