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SUBJECT: MODREN PRGRAMMING LANGUAGE

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ANS1PART (A):#Python program to perform Addition, Subtraction, #Multiplication and division num1=int(input("Enter the first number: "))

num2=int(input("Enter the second number: ")) print("Enter the operator you want to perform");

ch=input("Enter any of these operator for operation +, -, , / ")

result=0 if ch=='+': result=num1+num2; elif ch=='-': result=num1-num2; elif ch=='': result=num1*num2; elif ch=='/': result=num1/num2; else: print("char is not supported"); print(num1,ch,num2,": ",result)

PART(B):fav_num = 42 msg = "My favorite number is " + str(fav_num) + "." print(msg)

Output:

My favorite number is 42.

ANS2 PART (A): guests = ['guido van rossum', 'jack turner', 'lynn hill']

name = guests[0].title()

print(name + ", please come to dinner.")

```
name = guests[1].title()
print(name + ", please come to dinner.")
name = guests[2].title()
print(name + ", please come to dinner.")
```

PART(B): guests = ['guido van rossum', 'jack turner', 'lynn hill']

```
name = guests[0].title()
print(name + ", please come to dinner.")
name = guests[1].title()
print(name + ", please come to dinner.")
name = guests[2].title()
print(name + ", please come to dinner.")
name = guests[1].title()
print("\nSorry, " + name + " can't make it to dinner.")
# Jack can't make it! Let's invite Gary instead.
del(guests[1])
guests.insert(1, 'gary snyder')
# Print the invitations again.
name = guests[0].title()
print("\n" + name + ", please come to dinner.")
name = guests[1].title()
print(name + ", please come to dinner.")
name = guests[2].title()
print(name + ", please come to dinner.")
```

Output:

```
Guido Van Rossum, please come to dinner.
Jack Turner, please come to dinner.
```

Lynn Hill, please come to dinner.

ANS 3:locations = ['himalaya', 'andes', 'tierra del fuego', 'labrador', 'guam']

```
print("Original order:")
print(locations)
print("\nAlphabetical:")
print(sorted(locations))
print("\nOriginal order:")
print(locations)
print("\nReverse alphabetical:")
print(sorted(locations, reverse=True))
print("\nOriginal order:")
print(locations)
print("\nReversed:")
locations.reverse()
print(locations)
print("\nOriginal order:")
locations.reverse()
print(locations)
print("\nAlphabetical")
locations.sort()
print(locations)
print("\nReverse alphabetical")
locations.sort(reverse=True)
print(locations)
```

Output:

```
Original order:
```

['himalaya', 'andes', 'tierra del fuego', 'labrador', 'guam']

Alphabetical:

['andes', 'guam', 'himalaya', 'labrador', 'tierra del fuego']

Original order:

['himalaya', 'andes', 'tierra del fuego', 'labrador', 'guam']

Reverse alphabetical:

['tierra del fuego', 'labrador', 'himalaya', 'guam', 'andes']

Original order:

['himalaya', 'andes', 'tierra del fuego', 'labrador', 'guam']

Reversed:

['guam', 'labrador', 'tierra del fuego', 'andes', 'himalaya']

Original order:

['himalaya', 'andes', 'tierra del fuego', 'labrador', 'guam']

Alphabetical

['andes', 'guam', 'himalaya', 'labrador', 'tierra del fuego']

Reverse alphabetical

['tierra del fuego', 'labrador', 'himalaya', 'guam', 'andes