SCHOOL MANAGEMENT SYSTEM

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Details of project: I'm Implementing this project by using python programming language

 Code:

```python
while True:
    d = {}
    while True:
        ent_inp = int(input('Student Database Menu:\n1.Add student\n2.Update student\n3.Retrieve
            student\n4.Exit\n\nEnter your choice(1-4)= '))
        if ent_inp==1:
            d['RollNum']=input('Enter Roll Num: ')
            d['RollNum']={}
            d['RollNum']['Name']=input('Enter Name :')
            x = d['RollNum']['Name']
            d['RollNum']['Marks']={}
            d['RollNum']['Marks']=input('Enter Marks: ')
            y = d['RollNum']['Marks']
            print('\n')
            continue
        if ent_inp==2:
            d['RollNum']=input('Enter Roll Num: ')
            d['RollNum']={}
            d['RollNum']['Marks']=input('Enter New Marks: ')
            y = d['RollNum']['Marks']
            print('\n')
            continue
        if ent_inp==3:
            d['RollNum']=input('Enter Roll Num: ')
            d['RollNum']={}
            print('Name:',x,'Marks',y)
            print('\n')
            continue
        if ent_inp==4:
            print()
        print('Exiting.....')
        break
    break
```

Input & Output:


```
Output
Student Database Menu:
1.Add student
2.Update student
3.Retrieve student
4.Exit

Enter your choice(1-4)= 1
Enter Roll Num: 44                Student Database Menu:
Enter Name :Hari                  1.Add student
Enter Marks: 89                   2.Update student
                                  3.Retrieve student
                                  4.Exit
Student Database Menu:
1.Add student                     Enter your choice(1-4)= 3
2.Update student                  Enter Roll Num: 41
3.Retrieve student                Name: Sai Marks 90
4.Exit

Enter your choice(1-4)= 1
Enter Roll Num: 41                Student Database Menu:
Enter Name :Sai                   1.Add student
Enter Marks: 86                   2.Update student
                                  3.Retrieve student
                                  4.Exit
Student Database Menu:
1.Add student
2.Update student                  Enter your choice(1-4)= 4
3.Retrieve student
4.Exit                            Exiting.....

Enter your choice(1-4)= 2         === Code Execution Successful ===
Enter Roll Num: 41
Enter New Marks: 90
```

EXPLANATION:

First, we take while loop from starting (the use of while loop is it repeat looping the code until the condition is true). Taking an empty dictionary using the variable (d). Again, take while loop inside the loop and read input from user using the variable(ent_inp). Inside the input we take 4 options 1. Add student,2. Update student,3. Retrieve student,4. Exit. Now take if condition for 4 options. Inside first if condition read 3 input values 1. Roll no, 2. Name, 3. Marks and store the data name inside(x) and marks inside(y) variables. Inside second if condition read 2 input values 1. Roll no, 2. Marks and the updated marks will be stored in (y) variable. Inside the third if condition take 1 input value and print certain roll no: name and marks. The final condition is print Exiting…. Last using break statement for coming out side of the loop.

Conclusion:

This program provides a simple command-line interface to manage Student database using dictionary.