**Indian Institute of Information Technology, Dharwad**

Mini Project(python)

Introduction to Programming(CS104)

Write a program for school management system, so that the manager has full privileges to manage, distributing students, teachers and courses. This school a class with no place, so the system will manage the class replacing according to other classes evacuation. The system also must organize the existence and absence of teacher and gives always the name of the most commitment teacher.

**GROUP- F**

|  |  |  |
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|  |  |  |
| --- | --- | --- |
| EXAMINER 1 | EXAMINER 2 | EXAMINER 3 |

**Abstract**

School management is an important part of any educational system. School authorities all over the world are continuously engaged in numerous activities to efficiently manage school functions and provide better educational experience to students. However, managing school affairs is not at all easy in this fast-growing world. To better perform the functions of school management and assure parents of their child’s safety and progress, schools are using school management software nowadays. This software boasts a variety of features that improve the overall administration of schools. An effective school management software not only helps in availing information regarding the students but also provides information regarding the teacher activities inside the school. It’s easy to view a teacher’s class schedule, file reports efficiently and so on. Also, teachers can use their database to keep the details regarding class timings, student progress and classroom activities in one place.

Attendance processing is effective only when it's real-time. Employees and managers need to fix issues as soon as possible and not at the end of the month. The software designed for this purpose helps not only to view real-time attendance info but also to configure attendance the way the user wants it.

The code designed for this project is based upon Python. Python is a widely used high-level programming language for general-purpose programming, created by Guido van Rossum and first released in 1991. An interpreted language, Python has a design philosophy that emphasizes code readability, and a syntax that allows programmers to express concepts in fewer lines of code than might be used in languages such as C++ or Java. It provides constructs that enable clear programming on both small and large scales.

Python features a dynamic type system and automatic memory management. It supports multiple programming paradigms, including object-oriented, imperative, functional and procedural, and has a large and comprehensive standard library.

ATTRIBUTES

|  |  |
| --- | --- |
| **VARIABLE USED** | **MEANING** |
| td | Which day is today |
| o | Are you a teacher |
| a | Mr. Ravi |
| b | Mr. Ram |
| c | Mr. Shyam |
| d | Miss Meena |
| m | Are you a manager |
| From t to t3 |  |
| From v to v3 | Used for subject allotment |
| From e to e5 | Used for subject allotment |
| From g to g5 | Used for subject allotment |
| From i to i5 | Used for subject allotment |
| From h to h5 | Used for subject allotment |
| r1,r2,r5,r6,r7,r10,r11,r14,r15,r16,r17,r20,r21,r24 | Used for subject allotment |
| r25 to r27,r30,r31,r32,r35,r37,r38,r42,r43,r44,r | Used for subject allotment |
| s1,s11,s2,s22,s31,s32,s4,s7,s71,s72,s5,s51,s52 | Used for subject allotment |
| r51,r52,x1,x2,x3,x6,x7,x8,x9,x11,x12,x15,x16,x17 | Used for subject allotment |
| x22,x23,x24,x25,x26,x29,x30,x31,x32,x41,x42,x43 | Used for subject allotment |
| X46,x47,x48,x49 | Used for subject allotment |
| t100 ,q, r ,s | Attendance counter |
| sv[] | List that stores final attendance |

* Use of list and sorted function to find maximum number of attendance.
* Use of if and else statements for allotting classes for the corresponding teacher absent and also for asking whether the user is teacher or manager
* Use of infinite while loop for taking attendance day after day, use of break to exit from the while loop.

Model Design

**Functioning of code**

In our code, first we ask the user which day is today then it will ask whether user is a teacher or not. If user will enter that he/she is a teacher then code continues and takes attendance otherwise it breaks.

(*here if it gets break then it will show that each teacher is committed teacher since each teacher attendance is same i.e. initialized to zero. Thus it is advisable to enter yes)*

Then it asks whether now the user is manager or not if user enters yes then loop continues otherwise it breaks.

(*here if it gets break then it will show that each teacher is committed teacher since each teacher attendance is same i.e. initialized to zero. Thus it is advisable to enter yes)*

If all teachers are present then time table is same as above display in code otherwise it allot classes vacant on that day and show new table.

Similarly taking attendance from Monday to Friday and alloting classes it shows which teacher most committed teacher.

**Constraints in our code**

* Not valid if more than two teachers are absent.
* All teachers have to give attendance at once as code doesn’t stores attendance.
* We have to take attendance for each day at once as code doesn’t store attendance.
* It shows that all teachers are committed if you enter ‘no’ in input for teacher and manager

**Flowchart**

**DISPLAY OF**

**TIME TABLE**

**INPUT FOR TEACHER ATTENDANCE**

**CONTINUE**

**EXIT**

**ALLOTING THE**

**VACANT CLASSES**

**EXIT**

**DISPLAY OF MOST COMMITTED TEACHER**

**Source Code**

**FILE NAME -**SCHOOL MANAGEMENT.py

**print(' TIME TABLE ')**

**print('monday 1st 2nd break 3rd 4th')**

**print('class1 b1(maths) b3(phy) b3(cs) b2(maths)')**

**print('class2 b2(phy) b2(chem) b1(chem) b1(cs)')**

**print('')**

**print('')**

**print('tuesday 1st 2nd break 3rd 4th')**

**print('class1 b1(maths) b1(phy) b2(maths) b1(cs)')**

**print('class2 b2(cs) b3(chem) b3(phy) b3(math)')**

**print('')**

**print('')**

**print('wednesday 1st 2nd break 3rd 4th')**

**print('class1 b2(maths) b2(cs) b2(chem) b1(lab)')**

**print('class2 b3(cs) b1(chem) b3(maths) b3(chem)')**

**print('')**

**print('')**

**print('thursday 1st 2nd break 3rd 4th')**

**print('class1 b1(maths) b2(cs) b2(chem) b3(chem)')**

**print('class2 b3(cs) b3(maths) b1(cs) b1(chem)')**

**print('')**

**print('')**

**print('friday 1st 2nd break 3rd 4th')**

**print('class1 b1(phy) b2(phy) b2(cs) b2(maths)')**

**print('class2 b3(chem) b3(maths) b1(maths) b3(cs)')**

**print('')**

**t100=0**

**q=0**

**r=0**

**s=0**

**p='present'**

**while 1:**

**td=raw\_input('which day ')**

**o=raw\_input('are you a teacher ')**

**if o=='yes':**

**print("welcome to attendance portal")**

**print("please write present against your name for other names press enter")**

**a=raw\_input("Mr. Ravi ")**

**b=raw\_input("Mr. Ram ")**

**c=raw\_input("Mr. Shyam ")**

**d=raw\_input("Miss Meena ")**

**if a=='present':**

**print('Mr. Ravi(maths faculty) is present')**

**t100=t100+1**

**if b=='present':**

**print('Mr. Ram(chemistry faculty) is present')**

**q=q+1**

**if c=='present':**

**print('Mr. shyam(physics faculty) is present')**

**r=r+1**

**if d=='present':**

**print('Miss Meena(computer science) is present')**

**s=s+1**

**else:**

**break**

**m=raw\_input('are you manager ')**

**if m=='yes':**

**if a=='present' and b=='present' and c=='present' and d=='present':**

**print('follow the above given schedule')**

**else:**

**if td=='monday':**

**if a!=p and b==p and c==p and d==p:**

**print('In class-1:batch-1 first period is free')**

**print('in class-1:batch-2 fourth period is free')**

**t=raw\_input("which subject you want to allot ")**

**v=raw\_input("which subject you want to allot ")**

**print('In class 1 following schedule takes place whereas for class 2 it is same')**

**f="b1("+t+") b3(phy) break b3(cse) b2("+v+")"**

**print(f)**

**if a==p and b!=p and c==p and d==p:**

**print('In class-2:batch-2 second period is free')**

**print('In class-2:batch-1 third period is free')**

**t1=raw\_input("which subject you want to allot ")**

**v1=raw\_input("which subject you want to allot ")**

**print('In class 2 following schedule takes place whereas for class 1 it is same')**

**f1="b2(phy) b2("+t1+") break b1("+v1+") b1(cse)"**

**print(f1)**

**if a==p and b==p and c!=p and d==p:**

**print('In class-1:batch-3 second period is free')**

**print('In class-2:batch-2 first period is free')**

**t2=raw\_input("which subject you want to allot ")**

**v2=raw\_input("which subject you want to allot ")**

**f2="class1 b1(maths) b3("+t2+") break b3(cse) b2(maths)"**

**f3="class2 b2("+v2+") b2(chem) break b1(chem) b1(cse)"**

**print(f2)**

**print(f3)**

**if a==p and b==p and c==p and d!=p:**

**print('In class-1:batch-3 third period is free')**

**print('In class-2:batch-1 fourth period is free')**

**t3=raw\_input("which subject you want to allot ")**

**v3=raw\_input("which subject you want to allot ")**

**f4="class1 b1(maths) b3(phy) break b3("+t3+") b2(maths)"**

**f5="class2 b2(phy) b2(chem) break b1(chem) b1("+v3+")"**

**print(f4)**

**print(f5)**

**if a!=p and b!=p and c==p and d==p:**

**print('In class-1:batch-1 first period is free')**

**print('in class-1:batch-2 fourth period is free')**

**print('In class-2:batch-2 second period is free')**

**print('In class-2:batch-1 third period is free')**

**e=raw\_input("which subject you want to allot ")**

**g=raw\_input("which subject you want to allot ")**

**h=raw\_input("which subject you want to allot ")**

**i=raw\_input("which subject you want to allot ")**

**l1="class1 b1("+e+") b3(phy) break b3(cse) b2("+g+")"**

**l2="class2 b2(phy) b2("+h+") break b1("+i+") b1(cse)"**

**print(l1)**

**print(l2)**

**if a!=p and b==p and c!=p and d==p:**

**print('In class-1:batch-1 first period is free')**

**print('in class-1:batch-2 fourth period is free')**

**print('In class-1:batch-3 second period is free')**

**print('In class-2:batch-2 first period is free')**

**e1=raw\_input("which subject you want to allot ")**

**g1=raw\_input("which subject you want to allot ")**

**h1=raw\_input("which subject you want to allot ")**

**i1=raw\_input("which subject you want to allot ")**

**l3="class1 b1("+e1+") b3("+g1+") break b3(cse) b2("+h1+")"**

**l4="class2 b2("+i1+") b2(chem) break b1("+i+") b1(cse)"**

**print(l3)**

**print(l4)**

**if a!=p and b==p and c==p and d!=p:**

**print('In class-1:batch-1 first period is free')**

**print('in class-1:batch-2 fourth period is free')**

**print('In class-1:batch-3 third period is free')**

**print('In class-2:batch-1 fourth period is free')**

**e2=raw\_input("which subject you want to allot ")**

**g2=raw\_input("which subject you want to allot ")**

**h2=raw\_input("which subject you want to allot ")**

**i2=raw\_input("which subject you want to allot ")**

**l5="class1 b1("+e2+") b3(phy) break b3("+g2+") b2("+h2+")"**

**l6="class2 b2(phy) b2(chem) break b1(chem) b1("+i2+")"**

**print(l5)**

**print(l6)**

**if a==p and b!=p and c!=p and d==p:**

**print('In class-1:batch-3 second period is free')**

**print('In class-2:batch-2 first period is free')**

**print('In class-2:batch-2 second period is free')**

**print('In class-2:batch-1 third period is free')**

**e3=raw\_input("which subject you want to allot ")**

**g3=raw\_input("which subject you want to allot ")**

**h3=raw\_input("which subject you want to allot ")**

**i3=raw\_input("which subject you want to allot ")**

**l7="class1 b1(maths) b3("+e3+") break b3(cse) b2(maths)"**

**l8="class2 b2("+g3+") b2("+h3+") break b1("+i3+") b1(cse)"**

**print(l7)**

**print(l8)**

**if a==p and b!=p and c==p and d!=p:**

**print('In class-1:batch-3 second period is free')**

**print('In class-2:batch-2 first period is free')**

**print('In class-1:batch-3 third period is free')**

**print('In class-2:batch-1 fourth period is free')**

**e4=raw\_input("which subject you want to allot ")**

**g4=raw\_input("which subject you want to allot ")**

**h4=raw\_input("which subject you want to allot ")**

**i4=raw\_input("which subject you want to allot ")**

**l9="class1 b1(maths) b3(phy) break b3("+e4+") b2(maths)"**

**l10="class2 b2(phy) b2("+g4+") break b1("+h4+") b1("+i4+")"**

**print(l9)**

**print(l10)**

**if a==p and b==p and c!=p and d!=p:**

**print('In class-1:batch-3 second period is free')**

**print('In class-2:batch-2 first period is free')**

**print('In class-1:batch-3 third period is free')**

**print('In class-2:batch-1 fourth period is free')**

**e5=raw\_input("which subject you want to allot ")**

**g5=raw\_input("which subject you want to allot ")**

**h5=raw\_input("which subject you want to allot ")**

**i5=raw\_input("which subject you want to allot ")**

**l11="class1 b1(maths) b3("+e5+") break b3("+g5+") b2(maths)"**

**l12="class2 b2("+h5+") b2(chem) break b1(chem) b1("+i5+")"**

**print(l11)**

**print(l12)**

**if td=='tuesday':**

**if a!=p and b==p and c==p and d==p:**

**print('In class-1:batch-1 first period is free')**

**print('In class-1:batch-2 third period is free')**

**print('In class-2:batch-3 fourth period is free')**

**t=raw\_input("which subject you want to allot ")**

**v=raw\_input("which subject you want to allot ")**

**w=raw\_input("which subject you want to allot ")**

**f="class1 b1("+t+") b1(phy) break b2("+v+") b1(cse)"**

**fa="class2 b2(cse) b3(chem) break b3(phy) b3("+w+")"**

**print(f)**

**print(fa)**

**if a==p and b!=p and c==p and d==p:**

**print('In class-1:batch-1 second period is free')**

**print('In class-2:batch-3 third period is free')**

**t1=raw\_input("which subject you want to allot ")**

**v1=raw\_input("which subject you want to allot ")**

**f1="class1 b1(maths) b1("+t1+") break b2(maths) b1(cse)"**

**f1a="class2 b2(cse) b3(chem) break b3("+v1+") b3(maths)"**

**print(f1)**

**print(f1a)**

**if a==p and b==p and c!=p and d==p:**

**print('In class-2:batch-3 second period is free')**

**t2=raw\_input("which subject you want to allot ")**

**f2="class1 b1(maths) b1(phy) break b2(maths) b1(cse)"**

**f2a="class2 b2(cse) b3("+t2+") break b3(phy) b3(maths)"**

**print(f2)**

**print(f2a)**

**if a==p and b==p and c==p and d!=p:**

**print('In class-1:batch-1 fourth period is free')**

**print('In class-2:batch-2 first period is free')**

**t3=raw\_input("which subject you want to allot ")**

**v3=raw\_input("which subject you want to allot ")**

**f4="class1 b1(maths) b1(phy) break b2(maths) b1("+t3+")"**

**f5="class2 b2("+v3+") b3(chem) break b3(phy) b3(maths)"**

**print(f4)**

**print(f5)**

**if a!=p and b!=p and c==p and d==p:**

**print('In class-1:batch-1 first period is free')**

**print('In class-1:batch-1 second period is free')**

**print('In class-1:batch-2 third period is free')**

**print('In class-2:batch-3 third period is free')**

**print('In class-2:batch-3 fourth period is free')**

**e=raw\_input("which subject you want to allot ")**

**g=raw\_input("which subject you want to allot ")**

**h=raw\_input("which subject you want to allot ")**

**i=raw\_input("which subject you want to allot ")**

**j=raw\_input("which subject you want to allot ")**

**l1="class1 b1("+e+") b1("+g+") break b2("+h+") b1(cse)"**

**l2="class2 b2(cse) b3(chem) break b3("+i+") b3("+j+")"**

**print(l1)**

**print(l2)**

**if a!=p and b==p and c!=p and d==p:**

**print('In class-1:batch-1 first period is free')**

**print('In class-1:batch-2 third period is free')**

**print('In class-2:batch-3 second period is free')**

**print('In class-2:batch-3 fourth period is free')**

**e1=raw\_input("which subject you want to allot ")**

**g1=raw\_input("which subject you want to allot ")**

**h1=raw\_input("which subject you want to allot ")**

**i1=raw\_input("which subject you want to allot ")**

**l3="class1 b1("+e1+") b1(phy) break b2("+g1+") b1(cse)"**

**l4="class2 b2(cse) b3("+h1+") break b3(phy) b3("+i1+")"**

**print(l3)**

**print(l4)**

**if a!=p and b==p and c==p and d!=p:**

**print('In class-1:batch-1 first period is free')**

**print('in class-1:batch-1 fourth period is free')**

**print('In class-2:batch-2 first period is free')**

**print('In class-1:batch-2 third period is free')**

**print('In class-2:batch-3 fourth period is free')**

**e2=raw\_input("which subject you want to allot ")**

**g2=raw\_input("which subject you want to allot ")**

**h2=raw\_input("which subject you want to allot ")**

**i2=raw\_input("which subject you want to allot ")**

**j2=raw\_input("which subject you want to allot ")**

**l5="class1 b1("+e2+") b1(phy) break b2("+i2+") b1("+g2+")"**

**l6="class2 b2("+h2+") b3(chem) break b3(phy) b3("+j2+")"**

**print(l5)**

**print(l6)**

**if a==p and b!=p and c!=p and d==p:**

**print('In class-1:batch-3 second period is free')**

**print('In class-2:batch-2 first period is free')**

**print('In class-2:batch-2 second period is free')**

**e3=raw\_input("which subject you want to allot ")**

**g3=raw\_input("which subject you want to allot ")**

**h3=raw\_input("which subject you want to allot ")**

**l7="class1 b1(maths) b1("+e3+") break b2(maths) b1(cse)"**

**l8="class2 b2(cse) b3("+g3+") break b3("+h3+") b3(maths)"**

**print(l7)**

**print(l8)**

**if a==p and b!=p and c==p and d!=p:**

**print('In class-1:batch-1 second period is free')**

**print('In class-1:batch-1 fourth period is free')**

**print('In class-2:batch-2 first period is free')**

**print('In class-2:batch-3 third period is free')**

**e4=raw\_input("which subject you want to allot ")**

**g4=raw\_input("which subject you want to allot ")**

**h4=raw\_input("which subject you want to allot ")**

**i4=raw\_input("which subject you want to allot ")**

**l9="class1 b1(maths) b1("+e4+") break b2(maths) b1("+g4+")"**

**l10="class2 b2("+h4+") b3(chem) break b3("+i4+") b3(maths)"**

**print(l9)**

**print(l10)**

**if a==p and b==p and c!=p and d!=p:**

**print('In class-1:batch-1 fourth period is free')**

**print('In class-2:batch-2 first period is free')**

**print('In class-2:batch-3 second period is free')**

**e5=raw\_input("which subject you want to allot ")**

**g5=raw\_input("which subject you want to allot ")**

**h5=raw\_input("which subject you want to allot ")**

**l11="class1 b1(maths) b1(phy) break b2(maths) b1("+e5+")"**

**l12="class2 b2("+g5+") b3("+h5+") break b3(phy) b3(maths)"**

**print(l11)**

**print(l12)**

**if td=='wednesday':**

**if a!=p and b==p and c==p and d==p:**

**print(' in class-1:batch-2 first period is free')**

**print(' in class-2:batch-3 third period is free')**

**r1=raw\_input(" which subject you want to allot: ")**

**r2=raw\_input(" which subject you want to allot: ")**

**print('')**

**r3=" | b2("+r1+") | b2(computer) |break| b2(chemistry) | b1(lab) |"**

**r4=" | b3(computer) | b1(chemistry) |break| b3("+r2+") | b3(chemistry) |"**

**print(r3)**

**print(r4)**

**if a==p and b!=p and c==p and d==p:**

**print(' in class-1:batch-2 third period is free')**

**print(' in class-2:batch-1 second period is free')**

**print(' in class-2:batch-3 fourth period is free')**

**print('')**

**r5=raw\_input(" which subject you want to allot: ")**

**r6=raw\_input(" which subject you want to allot: ")**

**r7=raw\_input(" which subject you want to allot: ")**

**print('')**

**r8=" | b2(maths) | b2(computer) |break| b2("+r5+") | b1(lab) |"**

**r9=" | b3(computer) | b1("+r6+") |break| b3(maths) | b3("+r7+") |"**

**print(r8)**

**print(r9)**

**if a==p and b==p and c!=p and d==p:**

**print('follow the above schedule.')**

**if a==p and b==p and c==p and d!=p:**

**print(' in class-1:batch-2 second period is free')**

**print(' in class-2:batch-3 first period is free')**

**print('')**

**r10=raw\_input(" which subject you want to allot: ")**

**r11=raw\_input(" which subject you want to allot: ")**

**print('')**

**r12=" | class1 | b2(maths) | b2("+r10+") |break| b2(chemistry)| b1(lab) |"**

**r13=" | class2 | b3("+r11+") | b1(chemistry) |break| b3(maths) | b3(chemistry)|"**

**print(r12)**

**print(r13)**

**if a!=p and b!=p and c==p and d==p:**

**print('in class-1:batch-2 first period is free')**

**print('in class-1:batch-2 third period is free')**

**print('in class-2:batch-2 second period is free')**

**print('in class-2:batch-1 third period is free')**

**print('')**

**r14=raw\_input(" which subject you want to allot: ")**

**r15=raw\_input(" which subject you want to allot: ")**

**r16=raw\_input(" which subject you want to allot: ")**

**r17=raw\_input(" which subject you want to allot: ")**

**print('')**

**r18=" | class1 | b1("+r14+") | b3(physics) |break| b3(computer) | b2("+r15+") |"**

**r19=" | class2 | b2(physics) | b2("+r16+") |break| b1("+r17+") | b1(computer) |"**

**print(r18)**

**print(r19)**

**if a!=p and b==p and c!=p and d==p:**

**print(' in class-1:batch-2 first period is free')**

**print(' in class-2:batch-3 third period is free')**

**print('')**

**r20=raw\_input(" which subject you want to allot: ")**

**r21=raw\_input(" which subject you want to allot: ")**

**print('')**

**r22=" | class1 | b2("+r20+") | b2(computer) |break| b2(chemistry) | b1(lab) |"**

**r23=" | class2 | b3(computer)| b1(chemistry) |break| b3("+r21+") | b3(chemistry)|"**

**print(r22)**

**print(r23)**

**if a!=p and b==p and c==p and d!=p:**

**print(' in class-1:batch-2 first period is free')**

**print(' in class-1:batch-2 second period is free')**

**print(' in class-2:batch-3 first period is free')**

**print(' in class-2:batch-3 third period is free')**

**print('')**

**r24=raw\_input(" which subject you want to allot: ")**

**r25=raw\_input(" which subject you want to allot: ")**

**r26=raw\_input(" which subject you want to allot: ")**

**r27=raw\_input(" which subject you want to allot: ")**

**print('')**

**r28=" | class1 | b1("+r24+") | b2("+r25+") |break| b2(chemistry) | b2(lab) |"**

**r29=" | class2 | b3("+r26+") | b1(chemistry) |break| b3("+r27+") | b3(chemistry) |"**

**print(r28)**

**print(r29)**

**if a==p and b!=p and c!=p and d==p:**

**print(' in class-1:batch-2 third period is free')**

**print(' in class-2:batch-1 second period is free')**

**print(' in class-2:batch-3 fourth period is free')**

**print('')**

**r30=raw\_input(" which subject you want to allot: ")**

**r31=raw\_input(" which subject you want to allot: ")**

**r32=raw\_input(" which subject you want to allot: ")**

**print('')**

**r33= " | class1 || b1(maths) | b2(computer) |break| b2("+r30+") | b2(lab) |"**

**r34= " | class2 || b3(computer) | b1("+r31+") |break| b3(maths) | b3("+r32+")|"**

**print(r33)**

**print(r34)**

**if a==p and b!=p and c==p and d!=p:**

**print(' in class-1:batch-2 second period is free')**

**print(' in class-1:batch-2 third period is free')**

**print(' in class-2:batch-3 first period is free')**

**print(' in class-2:batch-1 second period is free')**

**print(' in class-2:batch-3 fourth period is free')**

**print('')**

**r35=raw\_input(" which subject you want to allot: ")**

**r36=raw\_input(" which subject you want to allot: ")**

**r37=raw\_input(" which subject you want to allot: ")**

**r38=raw\_input(" which subject you want to allot: ")**

**r41=raw\_input(" which subject you want to allot: ")**

**r39=" | class1 || b2(maths) | b2("+r35+") |break| b2("+r36+") | b1(lab) |"**

**r40=" | class2 || b3("+r37+") | b1("+r38+") |break| b3(maths) | b3("+r41+") |"**

**print(r39)**

**print(r40)**

**if a==p and b==p and c!=p and d!=p:**

**print(' in class-1:batch-2 second period is free')**

**print(' in class-2:batch-3 first period is free')**

**print('')**

**r42=raw\_input(" which subject you want to allot: ")**

**r43=raw\_input(" which subject you want to allot: ")**

**r44=" | class1 || b1(maths) | b2("+r42+") |break| b2(chemistry) | b1(lab) |"**

**r45=" | class2 || b3("+r43+") | b1(chemistry) |break| b3(maths) | b1(chemistry) |"**

**print(r44)**

**print(r45)**

**if td=='thursday':**

**if a!=p and b==p and c==p and d==p:**

**print('In class-1:batch-1 first period is free')**

**print('in class-2:batch-3 second period is free')**

**s=raw\_input("which subject you want to allot ")**

**r=raw\_input("which subject you want to allot ")**

**z1="b1("+s+") b2(cs) break b2(chem) b3(chem)"**

**z2="b3(cs) b3("+r+") break b1(cs) b1(chem)"**

**print(z1)**

**print(z2)**

**if a==p and b!=p and c==p and d==p:**

**print('In class-1:batch-2 third period and batch-3 fourth period is free')**

**print('In class-2:batch-1 fourth period is free')**

**s1=raw\_input("which subject you want to allot ")**

**s11=raw\_input("which subject you want to allot ")**

**r1=raw\_input("which subject you want to allot ")**

**z3="b1(maths) b2(cs) break b2("+s1+") b3("+s11+")"**

**z4="b3(cs) b3(maths) break b1(cs) b1("+r1+")"**

**print(z3)**

**print(z4)**

**if a==p and b==p and c!=p and d==p:**

**print("No free period")**

**if a==p and b==p and c==p and d!=p:**

**print('In class-1:batch-2 second period is free')**

**print('In class-2:batch-3 first period and batch-1 third period is free')**

**s2=raw\_input("which subject you want to allot ")**

**r2=raw\_input("which subject you want to allot ")**

**r22=raw\_input("which subject you want to allot ")**

**z5="b1(maths) b2("+s2+") break b2(chem) b3(chem)"**

**z6="b3("+r2+") b3(maths) break b1("+r22+") b1(chem)"**

**print(z5)**

**print(z6)**

**if a!=p and b!=p and c==p and d==p:**

**print('In class-1:batch-1 first period is free')**

**print('In class-1:batch-2 third period and batch-3 fourth period is free')**

**print('in class-2:batch-3 second period is free')**

**print('In class-2:batch-1 fourth period is free')**

**s3=raw\_input("which subject you want to allot ")**

**s31=raw\_input("which subject you want to allot ")**

**s32=raw\_input("which subject you want to allot ")**

**r3=raw\_input("which subject you want to allot ")**

**r33=raw\_input("which subject you want to allot ")**

**z7="b1("+s3+") b2(cs) break b2("+s31+") b3("+s32+")"**

**z8="b3(cs) b3("+r3+") break b1(cs) b1("+r33+")"**

**print(z7)**

**print(z8)**

**if a!=p and b==p and c!=p and d==p:**

**print('In class-1:batch-1 first period is free')**

**print('in class-2:batch-3 second period is free')**

**s4=raw\_input("which subject you want to allot ")**

**r4=raw\_input("which subject you want to allot ")**

**z9="b1("+s4+") b2(cs) break b2(chem) b3(chem)"**

**z10="b3(cs) b3("+r4+") break b1(cs) b1(chem)"**

**print(z9)**

**print(z10)**

**if a!=p and b==p and c==p and d!=p:**

**print('In class-1:batch-1 first period is free')**

**print('In class-1:batch-2 second period is free')**

**print('in class-2:batch-3 second period is free')**

**print('In class-2:batch-3 first period and batch-1 third period is free')**

**s5=raw\_input("which subject you want to allot ")**

**s51=raw\_input("which subject you want to allot ")**

**r5=raw\_input("which subject you want to allot ")**

**r51=raw\_input("which subject you want to allot ")**

**r52=raw\_input("which subject you want to allot ")**

**z11="b1("+5+") b2("+s51+") break b2(chem) b3(chem)"**

**z12="b3("+r51+") b3("+r5+") break b1("+r52+") b1(chem)"**

**print(z11)**

**print(z12)**

**if a==p and b!=p and c!=p and d==p:**

**print('In class-1:batch-2 third period and batch-3 fourth period is free')**

**print('In class-2:batch-1 fourth period is free')**

**s6=raw\_input("which subject you want to allot ")**

**s61=raw\_input("which subject you want to allot ")**

**r6=raw\_input("which subject you want to allot ")**

**z13="b1(maths) b2(cs) break b2("+s6+") b3("+s61+")"**

**z14="b3(cs) b3(maths) break b1(cs) b1("+r6+")"**

**print(z13)**

**print(z14)**

**if a==p and b!=p and c==p and d!=p:**

**print('In class-1:batch-2 third period and batch-3 fourth period is free')**

**print('In class-1:batch-2 second period is free')**

**print('In class-2:batch-1 fourth period is free')**

**print('In class-2:batch-3 first period and batch-1 third period is free')**

**s7=raw\_input("which subject you want to allot ")**

**s71=raw\_input("which subject you want to allot ")**

**s72=raw\_input("which subject you want to allot ")**

**r7=raw\_input("which subject you want to allot ")**

**r71=raw\_input("which subject you want to allot ")**

**r72=raw\_input("which subject you want to allot ")**

**z15="b1(maths) b2("+s72+") break b2("+s71+") b3("+s72+")"**

**z16="b3("+r71+") b3(maths) break b1("+r72+") b1("+r7+")"**

**print(z15)**

**print(z16)**

**if a==p and b==p and c!=p and d!=p:**

**print('In class-1:batch-2 second period is free')**

**print('In class-2:batch-3 first period and batch-1 third period is free')**

**s8=raw\_input("which subject you want to allot ")**

**r8=raw\_input("which subject you want to allot ")**

**r81=raw\_input("which subject you want to allot ")**

**z17="b1(maths) b2("+s8+") break b2(chem) b3(chem)"**

**z18="b3("+r8+") b3(maths) break b1("+r81+") b1(chem)"**

**print(z17)**

**print(z18)**

**if td=='friday':**

**if a!=p and b==p and c==p and d==p:**

**print('In class-1:batch-2 fourth period is free')**

**print('in class-2:batch-3 second period is free')**

**print('in class-2:batch-1 third period is free')**

**x1=raw\_input("which subject you want to allot ")**

**x2=raw\_input("which subject you want to allot ")**

**x3=raw\_input("which subject you want to allot")**

**x4="class1 b1(phy) b2(phy) break b2(cse) b2("+x1+")"**

**x5="class2 b3(chem) b3("+x2+") break b1("+x3+") b3(cse)"**

**print(x4)**

**print(x5)**

**if a==p and b!=p and c==p and d==p:**

**print('In class-2:batch-3 first period is free')**

**x6=raw\_input("which subject you want to allot ")**

**print('In class 2 following schedule takes place whereas for class 1 it is same')**

**x7="b3("+x6+") b3(math) break b1(math) b3(cse)"**

**print(x7)**

**if a==p and b==p and c!=p and d==p:**

**print('In class-1:batch-1 first period is free')**

**print('In class-1:batch-2 second period is free')**

**x8=raw\_input("which subject you want to allot ")**

**x9=raw\_input("which subject you want to allot ")**

**print('In class 1 following schedule takes place whereas for class 2 it is same')**

**x10="b1("+x8+") b2("+x9+") break b2(cse) b2(maths)"**

**print(x10)**

**if a==p and b==p and c==p and d!=p:**

**print('In class-1:batch-2 third period is free')**

**print('In class-2:batch-3 fourth period is free')**

**x11=raw\_input("which subject you want to allot ")**

**x12=raw\_input("which subject you want to allot ")**

**x13="class1 b1(phy) b2(phy) break b2("+x11+") b2(math)"**

**x14="class2 b3(chem) b3(math) break b1(math) b3("+x12+")"**

**print(x13)**

**print(x14)**

**if a!=p and b!=p and c==p and d==p:**

**print('in class-1:batch-2 fourth period is free')**

**print('In class-2:batch-3 first period is free')**

**print('In class-2:batch-3 second period is free')**

**print('In class-2:batch-1 third period is free')**

**x15=raw\_input("which subject you want to allot ")**

**x16=raw\_input("which subject you want to allot ")**

**x17=raw\_input("which subject you want to allot ")**

**x18=raw\_input("which subject you want to allot ")**

**x20="class1 b1(phy) b2(phy) break b2(cse) b2("+x15+")"**

**x21="class2 b3("+x16+") b3("+x17+") break b1("+x18+") b3(cse)"**

**print(x20)**

**print(x21)**

**if a!=p and b==p and c!=p and d==p:**

**print('In class-1:batch-1 first period is free')**

**print('in class-1:batch-2 second period is free')**

**print('In class-1:batch-2 fourth period is free')**

**print('In class-2:batch-3 second period is free')**

**print('In class-2:batch-1 third period is free')**

**x22=raw\_input("which subject you want to allot ")**

**x23=raw\_input("which subject you want to allot ")**

**x24=raw\_input("which subject you want to allot ")**

**x25=raw\_input("which subject you want to allot ")**

**x26=raw\_input("which subject you want to allot ")**

**x27="class1 b1("+x22+") b2("+x23+") break b2(cse) b2("+x24+")"**

**x28="class2 b3(chem) b3("+x25+") break b1("+x26+") b3(cse)"**

**print(x27)**

**print(x28)**

**if a!=p and b==p and c==p and d!=p:**

**print('In class-1:batch-2 third period is free')**

**print('in class-1:batch-2 fourth period is free')**

**print('In class-2:batch-3 second period is free')**

**print('In class-2:batch-1 third period is free')**

**print('In class-2:batch-3 fourth period is free')**

**x29=raw\_input("which subject you want to allot ")**

**x30=raw\_input("which subject you want to allot ")**

**x31=raw\_input("which subject you want to allot ")**

**x32=raw\_input("which subject you want to allot ")**

**x33=raw\_input("which subject you want to allot ")**

**x34="class1 b1(phy) b2(phy) break b2("+x29+") b2("+x30+")"**

**x35="class2 b3(chem) b3("+x31+") break b1("+x32+") b3("+x33+")"**

**print(x34)**

**print(x35)**

**if a==p and b!=p and c!=p and d==p:**

**print('In class-1:batch-1 first period is free')**

**print('In class-1:batch-2 second period is free')**

**print('In class-2:batch-3 first period is free')**

**x36=raw\_input("which subject you want to allot ")**

**x37=raw\_input("which subject you want to allot ")**

**x38=raw\_input("which subject you want to allot ")**

**x39="class1 b1("+x36+") b2("+x37+") break b2(cse) b2(math)"**

**x40="class2 b3("+x38+") b3(math) break b1(math) b3(cse)"**

**print(x39)**

**print(x40)**

**if a==p and b!=p and c==p and d!=p:**

**print('In class-1:batch-2 third period is free')**

**print('In class-2:batch-3 first period is free')**

**print('In class-2:batch-3 fourth period is free')**

**x41=raw\_input("which subject you want to allot ")**

**x42=raw\_input("which subject you want to allot ")**

**x43=raw\_input("which subject you want to allot ")**

**x44="class1 b1(phy) b2(phy) break b2("+x41+") b2(math)"**

**x45="class2 b3("+x42+") b3(math) break b1(math) b3("+x43+")"**

**print(x44)**

**print(x45)**

**if a==p and b==p and c!=p and d!=p:**

**print('In class-1:batch-1 first period is free')**

**print('In class-1:batch-2 second period is free')**

**print('In class-1:batch-2 third period is free')**

**print('In class-2:batch-3 fourth period is free')**

**x46=raw\_input("which subject you want to allot ")**

**x47=raw\_input("which subject you want to allot ")**

**x48=raw\_input("which subject you want to allot ")**

**x49=raw\_input("which subject you want to allot ")**

**x50="class1 b1("+x46+") b2("+x47+") break b2("+x48+") b2(math)"**

**x51="class2 b3(chem) b3(math) break b1(math) b3("+x49+")"**

**print(x50)**

**print(x51)**

**else:**

**print('thank you for registering your attendance')**

**x=raw\_input('press enter to continue')**

**if x=='no':**

**break**

**sv=[t100,q,r,s]**

**sv1=sorted(sv)**

**#for k in range(0,4):**

**for g in range(0,4):**

**if sv1[3]==sv[g]:**

**if g==0:**

**print("ravi is the most commited teacher")**

**elif g==1:**

**print("ram is the most commited teacher")**

**elif g==2:**

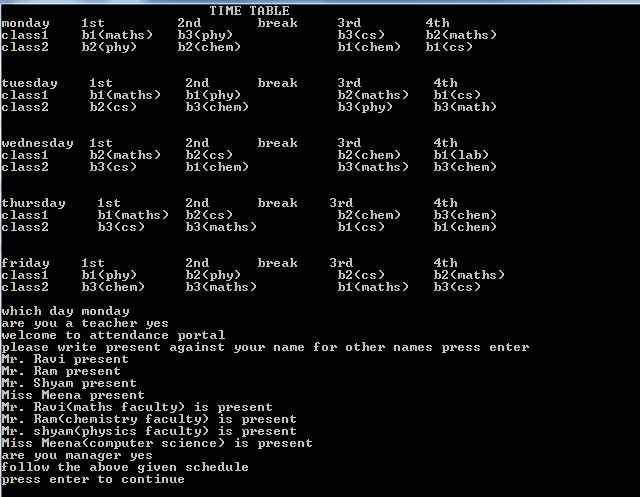
**print("shyam is the most commited teacher")**

**else:**

**print("meena is the most commited teacher")**

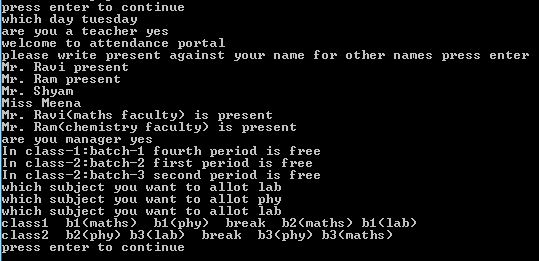
**OUTPUT**

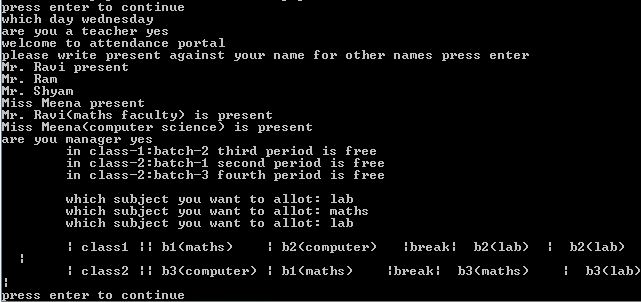
**If all are present**

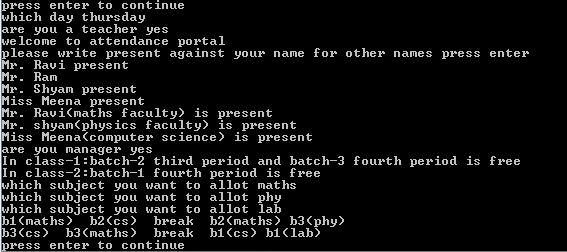


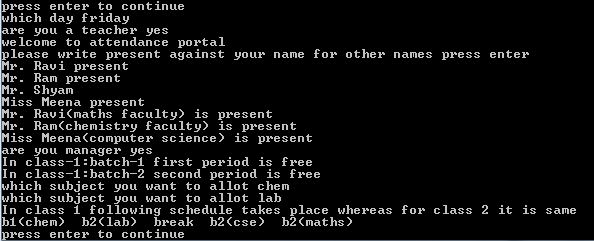
If some teacher are absent on each day











Output for most committed teacher



**CONCLUSION**

The python program ‘School Management’ is an effective way to take attendance of teachers and allot classes and periods which are free.

It takes input from teacher and manager write attendance and allot classes.

It uses all basic functions such as list etc. and proper use of if and else statement with use of break command.

With more advanced knowledge of python we can make program more use user friendly and can make GUI program