



# **A Project Report On “MARKS CONSOLIDATION”**

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This is to certify that **Cdt. MOHIT KUMAR**, Roll No. 27 of Class XII has prepared the report on the Project entitled “**MARKS CONSOLIDATION**”. The report is the result of his efforts & endeavors. The report is found worthy of acceptance as final project report for the subject Computer Science of Class XII.

Signature  
(Internal Examiner)

Signature  
(External Examiner)



## DECLARATION

I hereby declare that the project work entitled “**MARKS CONSOLIDATION**”, submitted to Department of **Computer Science**, SAINIK SCHOOL KALIKIRI is **prepared by me**. All the **coding** is the result of my **personal efforts**.

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MARKS CONSOLIDATION  
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MARKS CONSOLIDATION  
**1. WORKING DESCRIPTION**

- A. TO SHOW THE CADETS TOTAL MARKS**
- B. TO SHOW THE SUBJECT WISE CADETS MARKS**
- C. TO GET REMEDIAL STUDENTS**
- D. TO GET SUBJECT AVERAGE**
- E. TO UPDATE CADET MARKS**
- F. TO DELETE A CADET ENTRY**
- G. TO SEARCH A CADET'S MARKS**
- H. TO EXIT THE PROGRAM**

## 2. Code of the Project

```

import mysql.connector as sq
from prettytable import PrettyTable
from os import system

def heading():
    print("--- Marks Consodlilation ---")

def menu():
    print("--- Main Menu ---\n")
    print('1. To show the cadets total marks')
    print('2. To show subject wise cadet marks')
    print('3. To get remedial cadets')
    print('4. To get subject average')
    print('5. To update cadet marks')
    print('6. To delete a cadet ')
    print('7. To search a cadet marks')
    print('8. Exit the Program')
system('cls')
heading()

def show_cadets_total_marks():
    """This function shows the marks of all the cadets"""
    conn = sq.connect(host = 'localhost', user = 'root', password = 'student',
database = 'marks')
    cursor = conn.cursor()

    cursor.execute('select * from cadets_total_marks')
    data = cursor.fetchall()
    conn.close()
    table = PrettyTable()
    table.field_names = ['Roll No', 'Name', 'Class', 'Section', 'Total Marks']
    for row in data:
        table.add_row(row)

    print(table)

def cadets_marks():
    """This function shows the marks of all the cadets"""
    conn = sq.connect(host = 'localhost', user = 'root', password = 'student',
database = 'marks')
    cursor = conn.cursor()

```

## MARKS CONSOLIDATION

```
cursor.execute('select cadets_marks.rollno, name, class,
section,mathematics, physics, chemistry, english, comp_or_bio from
cadets_marks,cadets_total_marks where cadets_marks.rollno =
cadets_total_marks.rollno')
data = cursor.fetchall()
conn.close()
table = PrettyTable()
table.field_names = ['Roll No', 'Name', 'Class', 'Section', 'Mathematics',
'Physics','Chemistry','English','Comp/Bio']
for row in data:
    table.add_row(row)

print(table)
```

```
def get_remedial_cadets(sub_name):
    """This function shows the cadets for remedial for a subject"""
    conn = sq.connect(host = 'localhost', user = 'root', password = 'student',
database = 'marks')
    cursor = conn.cursor()

    cursor.execute(f"select cadets_marks.rollno,name,section,{sub_name} from
cadets_marks,cadets_total_marks where {sub_name} < 60.00 and
cadets_total_marks.rollno = cadets_marks.rollno")
    data = cursor.fetchall()
    conn.close()

    table = PrettyTable()
    table.field_names = ['Roll No', 'Name', 'Section',sub_name]
    for row in data:
        table.add_row(row)

    print(table)
```

```
def remedial_menu():
    """This function shows the menu of subject and selection for user"""
    while True:
        print('-- Remedial Menu --')
        print('1. Physics')
        print('2. Chemistry')
        print('3. Mathematics')
        print('4. English')
        print('5. Computer/Biology')
        print('6. Go to Main Menu')

        sub_dict = {
            '1' : 'physics',
            '2' : 'chemistry',
            '3' : 'mathematics',
```



## MARKS CONSOLIDATION

```
'4' : 'english',
'5' : 'comp_or_bio'
}
```

```
sub_input = input("Enter the desired number for a subject : ")
```

```
if sub_input in sub_dict:
    get_remedial_cadets(sub_dict[sub_input])
```

```
elif sub_input == '6':
    break
```

```
def get_subject_average():
```

```
    """This function returns all the subject averages"""
```

```
    conn = sq.connect(host = 'localhost', user = 'root', password = 'student',
database = 'marks')
    cursor = conn.cursor()
```

```
    cursor.execute('select
avg(chemistry),avg(physics),avg(mathematics),avg(english),avg(comp_or_bio)
from cadets_marks')
```

```
    data = cursor.fetchall()
```

```
    conn.close()
```

```
    table = PrettyTable()
```

```
    table.field_names = ['Chemistry', 'Physics', 'Mathematics', 'English',
'Computer/Biology']
```

```
    for row in data:
```

```
        table.add_row(row)
```

```
    print(table)
```

```
def update_cadet_marks():
```

```
    """This function lets the teacher update the cadets marks"""
```

```
    conn = sq.connect(host = 'localhost', user = 'root', password = 'student',
database = 'marks')
    cursor = conn.cursor()
```

```
    roll_no = int(input("Enter the rollno to update the marks : "))
```

```
    cursor.execute(f"select cadets_total_marks.rollno, name, class, section,
mathematics, physics,chemistry,english, comp_or_bio from
cadets_marks,cadets_total_marks where cadets_total_marks.rollno = {roll_no}
and cadets_marks.rollno = cadets_total_marks.rollno")
```

```
    data = cursor.fetchall()
```

```
    first_table = PrettyTable()
```

```
    first_table.field_names = ['Roll No', 'Name', 'Class', 'Section',
'Mathematics', 'Physics','Chemistry','English','Comp/Bio']
```

```
    for row in data:
```

```
        first_table.add_row(row)
```

## MARKS CONSOLIDATION

```
print(first_table)

maths_input = float(input("Enter Mathematics Marks : "))
phy_input = float(input("Enter physics marks"))
che_input = float(input("Enter the Chemistry Marks"))
eng_input = float(input("Enter the English Marks"))
comp_input = float(input("Enter the Computer/Bio Marks"))

total_marks = maths_input + phy_input + che_input + eng_input + comp_input
cursor.execute(f"update cadets_total_marks set total_marks = {total_marks}
where rollno = {roll_no}")
cursor.execute(f"update cadets_marks set chemistry = {che_input}, physics
= {phy_input}, mathematics = {maths_input}, comp_or_bio = {comp_input},
english = {eng_input} where rollno = {roll_no}")
conn.commit()
conn.close()
print("Data has been updated successfully")

def delete_cadet():
    """This function lets the teacher delete the cadets marks"""
    conn = sq.connect(host = 'localhost', user = 'root', password = 'student',
database = 'marks')
    cursor = conn.cursor()
    roll = int(input("Enter the rollno of the cadet : "))
    ans = input('are you sure you want delete:')
    if ans == 'y' or ans == 'Y':
        query1 = "delete from cadets_marks where rollno = {}".format(roll)
        cursor.execute(query1)
        conn.commit()
        query2 = "delete from cadets_total_marks where rollno =
{}".format(roll)
        cursor.execute(query2)
        conn.commit()
        print("Data deleted successfully")
    conn.close()

def cadet_marks():
    """This function lets the teacher search the cadets marks"""
    conn = sq.connect(host = 'localhost', user = 'root', password = 'student',
database = 'marks')
    cursor = conn.cursor()
    roll = int(input("Enter the rollno of the cadet : "))
    query = "select * from cadets_marks where rollno ={}".format(roll)
    cursor.execute(query)
    data = cursor.fetchall()

    t =
PrettyTable(['Rollno', 'mathematics', 'physics', 'chemistry', 'English', 'Comp or
Bio'])
```

## MARKS CONSOLIDATION

```
for row in data:
    t.add_row(row)
print(t)
conn.commit()
conn.close()
```

```
while True:
    menu()

    user_input = input("Enter your desired choice : ")

    dict = {
        '1' : show_cadets_total_marks,
        '2' : cadets_marks,
        '3' : remedial_menu,
        '4' : get_subject_average,
        '5' : update_cadet_marks,
        '6' : delete_cadet,
        '7' : cadet_marks,
        '8' : exit
    }

    if user_input in dict:
        dict[user_input]()

    else:
        print("You have entered an invalid input. Please Try Again")
        continue
```

### 3. Output Screens

#### **The main menu of the program**

```
--- Marks Consodlilation ---  
--- Main Menu ---  
  
1. To show the cadets total marks  
2. To show subject wise cadet marks  
3. To get remedial cadets  
4. To get subject average  
5. To update cadet marks  
6. To delete a cadet  
7. To search a cadet marks  
8. Exit the Program  
Enter your desired choice : |
```

# MARKS CONSOLIDATION

## 1.TO SHOW THE CADETS TOTAL MARKS

--- Marks Consodlilation ---

--- Main Menu ---

1. To show the cadets total marks
2. To show subject wise cadet marks
3. To get remedial cadets
4. To get subject average
5. To update cadet marks
6. To delete a cadet
7. To search a cadet marks
8. Exit the Program

Enter your desired choice : 1

Roll No	Name	Class	Section	Total Marks
1	K SHIVA KUMAR	12	A	318.00
2	KOLE VIJAY KUMAR	12	C	268.00
3	MANDAVA PRANAV	12	C	330.00
4	RONGALI ABHIRAM	12	C	350.00
7	VECHALAPU ROHIT BABU	12	A	367.00
8	BUGGAREDDYGARI UDAYSAI REDDY	12	C	360.00
9	DUBA VINAY	12	C	331.00
10	BANDARI JAYACHANDRA	12	B	325.00
11	NADIMPALLI DEVI SRIKANTH RAJU	12	C	273.00
12	MALLARI HITESH CHANDRA	12	A	434.00
13	KASULA SAI NANDHAN	12	C	359.00
15	KURUBA BHAVYAPRABHADITYA	12	A	285.00
16	MULAVAGILI JYOTHEESWARA	12	A	434.00
17	KARANAM LAKSHMI NARAYANA RAO	12	C	386.00
18	TONDRAPU KALYAN CHAKRAVARTHY	12	A	363.00
19	PALLANTI ASRITH VATSAL	12	B	358.00
20	LEVAKU KARAN SAKETH REDDY	12	A	439.00
22	DHIRAJ KUMAR CHANCHAL	12	B	334.00
23	ABHISHEK KUMAR	12	B	332.00
24	ANURAG KUMAR	12	A	326.00
25	SAURABH KUMAR	12	A	397.00
26	AMBUJ KUMAR	12	A	419.00

# MARKS CONSOLIDATION

## 2.TO SHOW SUBJECT WISE CADET MARKS

--- Main Menu ---

1. To show the cadets total marks
2. To show subject wise cadet marks
3. To get remedial cadets
4. To get subject average
5. To update cadet marks
6. To delete a cadet
7. To search a cadet marks
8. Exit the Program

Enter your desired choice : 2

Roll No	Name	Class	Section	Mathematics	Physics	Chemistry	English	Comp/Bio
1	K SHIVA KUMAR	12	A	65.00	72.00	63.00	52.00	66.00
2	KOLE VIJAY KUMAR	12	C	63.00	25.00	36.00	56.00	88.00
3	MANDAVA PRANAV	12	C	66.00	66.00	66.00	66.00	66.00
4	RONGALI ABHIRAM	12	C	90.00	85.00	65.00	45.00	65.00
7	VECHALAPU ROHIT BABU	12	A	85.00	75.00	96.00	52.00	59.00
8	BUGGAREDDYGARI UDAYSAI REDDY	12	C	65.00	65.00	45.00	98.00	87.00
9	DUBA VINAY	12	C	61.00	96.00	58.00	69.00	47.00
10	BANDARI JAYACHANDRA	12	B	65.00	65.00	65.00	65.00	65.00
11	NADIMPALLI DEVI SRIKANTH RAJU	12	C	52.00	53.00	54.00	56.00	58.00
12	MALLARI HITESH CHANDRA	12	A	96.00	85.00	74.00	84.00	95.00
13	KASULA SAI NANDHAN	12	C	65.00	75.00	74.00	73.00	72.00
15	KURUBA BHAVYAPRABHADITYA	12	A	65.00	45.00	15.00	65.00	95.00
16	MULAVAGILI JYOTHEESWARA	12	A	85.00	86.00	87.00	88.00	88.00
17	KARANAM LAKSHMI NARAYANA RAO	12	C	78.00	78.00	79.00	75.00	76.00
18	TONDRAPU KALYAN CHAKRAVARTHY	12	A	60.00	75.00	74.00	76.00	78.00
19	PALLANTI ASRITH VATSAL	12	B	65.00	65.00	65.00	65.00	98.00
20	LEVAKU KARAN SAKETH REDDY	12	A	99.00	86.00	85.00	84.00	85.00
22	DHIRAJ KUMAR CHANCHAL	12	B	65.00	69.00	68.00	67.00	65.00
23	ABHISHEK KUMAR	12	B	65.00	65.00	65.00	69.00	68.00
24	ANURAG KUMAR	12	A	75.00	85.00	45.00	56.00	65.00
25	SAURABH KUMAR	12	A	87.00	75.00	76.00	74.00	85.00
26	AMBUJ KUMAR	12	A	96.00	89.00	75.00	74.00	85.00
27	KUMAR MOHIT	12	B	85.00	85.00	85.00	85.00	85.00
28	KUMAR SAURABH	12	B	69.00	69.00	69.00	68.00	67.00
29	NARENDRA YADAV	12	A	65.00	86.00	87.00	75.00	95.00
30	RAUSHAN KUMAR	12	B	85.00	75.00	45.00	85.00	96.00
31	DINKAR KUMAR	12	B	45.00	56.00	98.00	78.00	45.00
32	SURAJ KUMAR	12	B	65.00	68.00	78.00	98.00	98.00
33	VISHNU KUMAR	12	B	98.00	85.00	86.00	84.00	87.00
34	PANKAJ KUMAR	12	A	89.00	89.00	90.00	86.00	85.00

### 3.TO GET THE LIST OF REMEDIAL STUDENTS

```

--- Main Menu ---

1. To show the cadets total marks
2. To show subject wise cadet marks
3. To get remedial cadets
4. To get subject average
5. To update cadet marks
6. To delete a cadet
7. To search a cadet marks
8. Exit the Program
Enter your desired choice : 3
-- Remedial Menu --
1. Physics
2. Chemistry
3. Mathematics
4. English
5. Computer/Biology
6. Go to Main Menu
Enter the desired number for a subject : 1
+-----+-----+-----+-----+
| Roll No | Name | Section | physics |
+-----+-----+-----+-----+
| 2 | KOLE VIJAY KUMAR | C | 25.00 |
| 11 | NADIMPALLI DEVI SRIKANTH RAJU | C | 53.00 |
| 15 | KURUBA BHAVYAPRABHADITYA | A | 45.00 |
| 31 | DINKAR KUMAR | B | 56.00 |
| 41 | N RANGA MADHAV | B | 56.00 |
| 44 | MD MOHAMMED MUSHTAQ | A | 36.00 |
| 45 | MD ABUBAKAR SIDDIQ | B | 45.00 |
| 46 | GONTU SANDEEP KUMAR | B | 59.00 |
| 47 | LAKAVATH GUNA SHEKHAR | A | 12.00 |
| 62 | SAMEER KUMAR | C | 45.00 |
| 74 | KORRA SURESH | A | 58.00 |
+-----+-----+-----+-----+
-- Remedial Menu --
1. Physics
2. Chemistry
3. Mathematics
4. English
5. Computer/Biology
6. Go to Main Menu

```

## MARKS CONSOLIDATION

```
-- Remedial Menu --
1. Physics
2. Chemistry
3. Mathematics
4. English
5. Computer/Biology
6. Go to Main Menu
Enter the desired number for a subject : 6
--- Main Menu ---

1. To show the cadets total marks
2. To show subject wise cadet marks
3. To get remedial cadets
4. To get subject average
5. To update cadet marks
6. To delete a cadet
7. To search a cadet marks
8. Exit the Program
Enter your desired choice : |
```

AFTER ENTERING “6” IN THE REMEDIAL MENU IT RETURNS TO THE MAIN MENU



## MARKS CONSOLIDATION

### 4.TO GET SUBJECT AVERAGE

```
--- Main Menu ---
1. To show the cadets total marks
2. To show subject wise cadet marks
3. To get remedial cadets
4. To get subject average
5. To update cadet marks
6. To delete a cadet
7. To search a cadet marks
8. Exit the Program
Enter your desired choice : 4
+-----+-----+-----+-----+-----+
| Chemistry | Physics | Mathematics | English | Computer/Biology |
+-----+-----+-----+-----+-----+
| 74.550000 | 77.500000 | 72.530000 | 79.328500 | 77.550000 |
+-----+-----+-----+-----+-----+
```

### 5.TO UPDATE THE MARKS OF A STUDENT

```
--- Main Menu ---
1. To show the cadets total marks
2. To show subject wise cadet marks
3. To get remedial cadets
4. To get subject average
5. To update cadet marks
6. To delete a cadet
7. To search a cadet marks
8. Exit the Program
Enter your desired choice : 5
Enter the rollno to update the marks : 27
+-----+-----+-----+-----+-----+-----+-----+-----+
| Roll No | Name | Class | Section | Mathematics | Physics | Chemistry | English | Comp/Bio |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 27 | KUMAR MOHIT | 12 | B | 85.00 | 85.00 | 85.00 | 85.00 | 85.00 |
+-----+-----+-----+-----+-----+-----+-----+-----+
Enter Mathematics Marks : 95
Enter physics marks99
Enter the Chemistry Marks95
Enter the English Marks96
Enter the Computer/Bio Marks90
Data has been updated successfully
```

### AFTER UPDATING THE MARKS

Rollno	mathematics	physics	chemistry	English	Comp or Bio
27	95.00	95.00	99.00	96.00	90.00

## MARKS CONSOLIDATION

### 6.TO DELETE A CADET ENTRY

```

--- Main Menu ---
1. To show the cadets total marks
2. To show subject wise cadet marks
3. To get remedial cadets
4. To get subject average
5. To update cadet marks
6. To delete a cadet
7. To search a cadet marks
8. Exit the Program
Enter your desired choice : 6
Enter the rollno of the cadet : 2
are you sure you want delete:Y
Data deleted successfully

```

NOW ROLL NO 2 IS BEING DELETED

Roll No	Name	Class	Section	Mathematics	Physics	Chemistry	English	Comp/Bio
1	K SHIVA KUMAR	12	A	65.00	72.00	63.00	52.00	66.00
3	MANDAVA PRANAV	12	C	66.00	66.00	66.00	66.00	66.00
4	RONGALI ABHIRAM	12	C	90.00	85.00	65.00	45.00	65.00
7	VECHALAPU ROHIT BABU	12	A	85.00	75.00	96.00	52.00	59.00
8	BUGGAREDDYGARI UDAYSAI REDDY	12	C	65.00	65.00	45.00	98.00	87.00

### 7.TO SEARCH A CADET'S MARKS

```

--- Main Menu ---
1. To show the cadets total marks
2. To show subject wise cadet marks
3. To get remedial cadets
4. To get subject average
5. To update cadet marks
6. To delete a cadet
7. To search a cadet marks
8. Exit the Program
Enter your desired choice : 7
Enter the rollno of the cadet : 27
+-----+-----+-----+-----+-----+-----+
| Rollno | mathematics | physics | chemistry | English | Comp or Bio |
+-----+-----+-----+-----+-----+-----+
| 27 | 95.00 | 95.00 | 99.00 | 96.00 | 90.00 |
+-----+-----+-----+-----+-----+-----+

```

## 8.TO EXIT FROM THE PROGRAM

```
--- Main Menu ---  
  
1. To show the cadets total marks  
2. To show subject wise cadet marks  
3. To get remedial cadets  
4. To get subject average  
5. To update cadet marks  
6. To delete a cadet  
7. To search a cadet marks  
8. Exit the Program  
Enter your desired choice : 8  
>>>
```

## 4. BIBLIOGRAPHY

1. Computer Science with Python [Textbook XII] by Sumita Arora
2. <https://ptable.readthedocs.io/en/latest/>
3. <https://docs.python.org/79/library/getpass.html>