

A Project Report On "MARKS CONSOLIDATION"

Submitted By:

Abhishek Kumar Singh

Roll No: 49 Class: XII B

CBSE ROLL NO:

Under the Guidance of

Mr. Anoop V S

PGT (Computer Science)

Department of Computer Science

SAINIK SCHOOL KALIKIRI

Department of Computer Science SAINIK SCHOOL KALIKIRI



This is to certify that **Cdt. ABHISHEK KUMAR SINGH**, Roll No. 49 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.

Cdt. Abhishek Kumar Singh

Roll No: 49

Class: XII B

SAINIK SCHOOL KALIKIRI



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Cdt. Abhishek Kumar Singh Roll No:49

Class: XII B

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MARKS CONSOLIDATION **CONTENTS**

1. Working Description
2. Code of the Project
3. Output Screens
4. Bibliography

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 Consodlidation ---")
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()
```

```
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</pre>
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',
```

```
'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)
```

```
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()
PrettyTable(['Rollno', 'mathematics', 'physics', 'chemistry', 'English', 'Comp or
Bio'])
```

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 Consodlidation ---
--- 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 Consodlidation ------ Main Menu ---

- 1. To show the cadets total marks
- 2. To show subject wise cadet marks
- 3. To get remedial cadets
- To get subject average
 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	А	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	В	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	В	358.00
20	LEVAKU KARAN SAKETH REDDY	12	A	439.00
22	DHIRAJ KUMAR CHANCHAL	12	В	334.00
23	ABHISHEK KUMAR	12	В	332.00
24	ANURAG KUMAR	12	А	326.00
25	SAURABH KUMAR	12	А	397.00
26 İ	AMBUJ KUMAR	12	А	419.00

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

    Physics

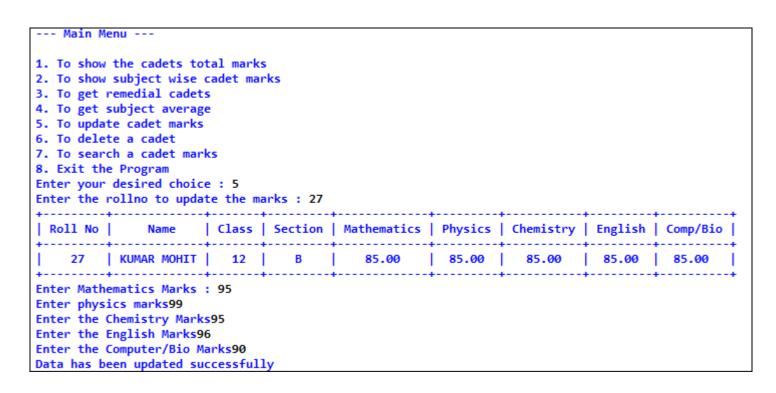
Chemistry
3. Mathematics
4. English
5. Computer/Biology
6. Go to Main Menu
```

```
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

5.TO UPDATE THE MARKS OF A STUDENT



AFTER UPDATING THE MARKS

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

6.TO DELETE A CADET ENTRY

Main Menu
1. To show the cadets total marks
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	•	Class	Section	Mathematics	Physics	Chemistry	English	Comp/Bio
1 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

```
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

```
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

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