KENDRIYA VIDYALAYA NO. 2 JALAHALLI EAST BANGALORE

A PROJECT REPORT

ON

DAILY TASK MANAGER

FOR

CBSE 2024-25 EXAMINATION

[AS A PART OF THE COMPUTER SCIENCE (083)]

Submitted by - Rishabh

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Class – XII A

UNDER GUIDANCE:

MRS. LEENA A

PGT (COMP.SC)

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CERTIFICATE

This is to certify that Rishabh of class XII-A has successfully completed their Computer Science project on "Daily Tasks Manager" under the guidance of Mrs. Leena Unni (PGT Comp. Sc.). This is certified to be the Bonafide work of the student in the Informatics Computer Science laboratory during the academic year 2024-25.

Signature of subject Teacher

Mrs. Leena Unni

Signature of Principal

Mrs. Jyoti Sharma

Signature of External Examiner

Acknowledgement

I would like to take this opportunity to extend my sincere gratitude and appreciation to my computer science teacher

Mrs. Leena Unni for providing guidance and support throughout the process of completing my project.

I am also thankful to my principal Mrs. Jyoti Sharma for allowing me the opportunity to explore and work on this project in the school environment.

Lastly, I would also like to thank my friends and classmates who were always there for me whenever I needed their help while making the project and have contributed a lot to this project. I want to thank every individual who assisted me, guided me and supported me during the journey of this project. This project is possible only because of all these people. Thank you so much.

INTRODUCTION

This project provides information about 'Daily Task Manager'.

This allows storage and management of daily tasks for Class 12 subjects like Math, Physics, Chemistry, and Computer Science. The system is developed using Python and MySQL.

Users can select tasks from the Class 12 syllabus, set a time limit for completion, and upon completion, analyze their productivity. The system records whether tasks are completed or not, stores reasons for incomplete tasks, and generates a graph to visualize productivity.

Details can be added, analyzed, and reviewed based on the user's performance and requirements.

Need for the Project: Daily Task Manager

- Efficient Syllabus Management
- Time-Bound Focus
- Time Management
- Progress Tracking
- Personal Reflection
- Graphical Productivity Insights

Software used

- **Microsoft Windows® 11 Home** as Operating System.
- **MYSQL.**
- **Python 3.13.1**as Front-end Development Environment.
- **MYSQL-Connector-Python.**
- **Jupyter notebook** for coding.
- **MS Word** for Documentation.
- **Snipping tool** for screenshots

CODES

SQL CODES: -

```
Create database db;
Use db;

CREATE TABLE `reasons` (
`id` int (11) NOT NULL,
`Reason` varchar (1000) DEFAULT NULL);

CREATE TABLE `task` (
`No.` int (11) NOT NULL,
`Subject` varchar (30) NOT NULL,
`Chapter` varchar (150) NOT NULL);

INSERT INTO `task` (`No.`, `Subject`, `Chapter`) VALUES
(1, 'Physics', 'Electric Charges and Fields'),
(2, 'Physics', 'Electrostatic Potential and Capacitance'),
(3, 'Physics', 'Current Electricity'),
(4, 'Physics', 'Moving Charges and Magnetism'),
```

(5, 'Physics', 'Magnetism and Matter'),
(6, 'Physics', 'Electromagnetic Induction'),
(7, 'Physics', 'Alternating Current'),
(8, 'Physics', 'Electromagnetic Waves'),
(9, 'Physics', 'Ray Optics and Optical Instruments'),
(10, 'Physics', 'Wave Optics'),
(11, 'Physics', 'Dual Nature of Radiation and Matter'),
(12, 'Physics', 'Atoms'),
(13, 'Physics', 'Nuclei'),
(14, 'Physics', 'Semiconductor Electronics'),
(16, 'Chemistry', 'Solutions'),
(17, 'Chemistry', 'Electrochemistry'),
(18, 'Chemistry', 'Chemical Kinetics'),
(19, 'Chemistry', 'The d- and f-Block Elements'),
(20, 'Chemistry', 'Coordination Compounds'),
(21, 'Chemistry', 'Haloalkanes and Haloarenes'),
(22, 'Chemistry', 'Alcohols, Phenols, and Ethers'),
(23, 'Chemistry', 'Aldehydes, Ketones, and Carboxylic Acids'),
(24, 'Chemistry', 'Amines'),
(25, 'Chemistry', 'Biomolecules'),
(26, 'Mathematics', 'Relations and Functions'),
(27, 'Mathematics', 'Inverse Trigonometric Functions'),
(28, 'Mathematics', 'Matrices'),
(29, 'Mathematics', 'Determinants'),
(30, 'Mathematics', 'Continuity and Differentiability'),
(31, 'Mathematics', 'Applications of Derivatives'),
(32, 'Mathematics', 'Integrals'),
(33, 'Mathematics', 'Applications of Integrals'),
(34, 'Mathematics', 'Differential Equations'),
(35, 'Mathematics', 'Vector Algebra'),
(36, 'Mathematics', 'Three-Dimensional Geometry'),
(37, 'Mathematics', 'Linear Programming'),
(38, 'Mathematics', 'Probability'),

```
(39, 'Computer Science', 'Revision of Python topics covered in Class 11'),
(40, 'Computer Science', 'Functions'),
(41, 'Computer Science', 'File Handling'),
(42, 'Computer Science', 'Data Structures: Stacks'),
(43, 'Computer Science', 'Computer Networks'),
(44, 'Computer Science', 'Relational Databases and SQL'),
(45, 'Computer Science', 'Python-MySQL Connectivity'),
(46, 'Computer Science', 'Project Work'),
(47, 'Computer Science', 'Practical Work'),
(48, 'English', 'Literature'),
(49, 'English', 'Grammar'),
(50, 'English', 'Writing')'");


ALTER TABLE `reasons`
ADD PRIMARY KEY (`id`);

ALTER TABLE `task`
ADD PRIMARY KEY (`No.`);

ALTER TABLE `reasons`
MODIFY `id` int (11)
NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=16;
```

PYHTHON CODES: -

```
import time

import matplotlib.pyplot as plt

import mysql.connector as mysql

task=[]
```

```
incomp=[]
def display(task):
    print("\nWELCOME TO DAILY TASK MANAGER \n")
    print("Let's Do this \n")
    c=mysql.connect(host="localhost", user="Rishabh", password="root",
database="db")
    cr=c.cursor()
    try:
        minutes = float(input("Enter the timer duration in minutes: "))
        if minutes <= 0:
            print("Please enter a positive number.")
            return
        seconds = int(minutes * 60)
    except ValueError:
        print("Invalid input! Please enter a number.")
    while True:
        print("Select the subject from the following:- ")
        print("1. Physics")
        print("2. Chemistry")
        print("3. Mathematics")
        print("4. Computer Science")
```

```
        print("5. English")
        print("6. Done")
        sub=int(input("\nEnter Your choice:- "))
        if sub==1:
            print("\nEnter the Chapter you want to choose from the following:-
")
            cr.execute('SELECT * FROM task where Subject="Physics"')
            p=cr.fetchall()
            for i in (p):
                print(p.index(i)+1,i[2])
            chap=int(input("\nEnter the Chapter number you want to add a
task for:- "))
            task.append(p[chap-1][2])
            print("\nTask added successfully")
        elif sub==2:
            print("\nEnter the Chapter you want to choose from the following:-
")
            cr.execute('SELECT * FROM task where Subject="Chemistry"')
            chem=cr.fetchall()
            for i in (chem):
                print(chem.index(i)+1,i[2])
```

```
        chap=int(input("\nEnter the Chapter number you want to add a
task for:- "))
        task.append(chem[chap-1][2])
        print("\nTask added successfully")
    elif sub==3:
        print("\nEnter the Chapter you want to choose from the following:-
")
        cr.execute('SELECT * FROM task where Subject="Mathematics"')
        m=cr.fetchall()
        for i in (m):
            print(m.index(i)+1,i[2])
        chap=int(input("\nEnter the Chapter number you want to add a
task for:- "))
        task.append(m[chap-1][2])
        print("\nTask added successfully")
    elif sub==4:
        print("\nEnter the Chapter you want to choose from the following:-
")
        cr.execute('SELECT * FROM task where Subject="Computer
Science"')
        cs=cr.fetchall()
```

```
        for i in (cs):
            print(cs.index(i)+1,i[2])
        chap=int(input("\nEnter the Chapter number you want to add a
task for:- "))
        task.append(cs[chap-1][2])
        print("\nTask added successfully")
    elif sub==5:
        print("\nEnter the Chapter you want to choose from the following:-
")
        cr.execute('SELECT * FROM task where Subject="English"')
        e=cr.fetchall()
        for i in (e):
            print(e.index(i)+1,i[2])
        chap=int(input("\nEnter the Chapter number you want to add a
task for:- "))
        task.append(e[chap-1][2])
        print("\nTask added successfully")
    elif sub==6:
        break
    else:
        print("\nInvalid choice. Please try again.")
```

```
    print("\nYour tasks for today are:")
    for i in task:
        print(i)
    print("\nAnd the Time you have is ","Timer set for",seconds,"seconds",
minutes ,"minutes")
    while seconds > 0:
        print(f"{seconds // 60:02d}:{seconds % 60:02d}", end="\r")
        time.sleep(1)
        seconds -= 1
    print("\nTime's up!          ")
    c.close()
def add():
    c = mysql.connect(
            host='localhost',
            database='db',
            user='Rishabh',
            password='root'
        )
    cr = c.cursor()
    res=input("Enter your reason not to complete the task:- ")
    cr.execute(f"INSERT INTO reasons (Reason) VALUES ('{res}')")
```

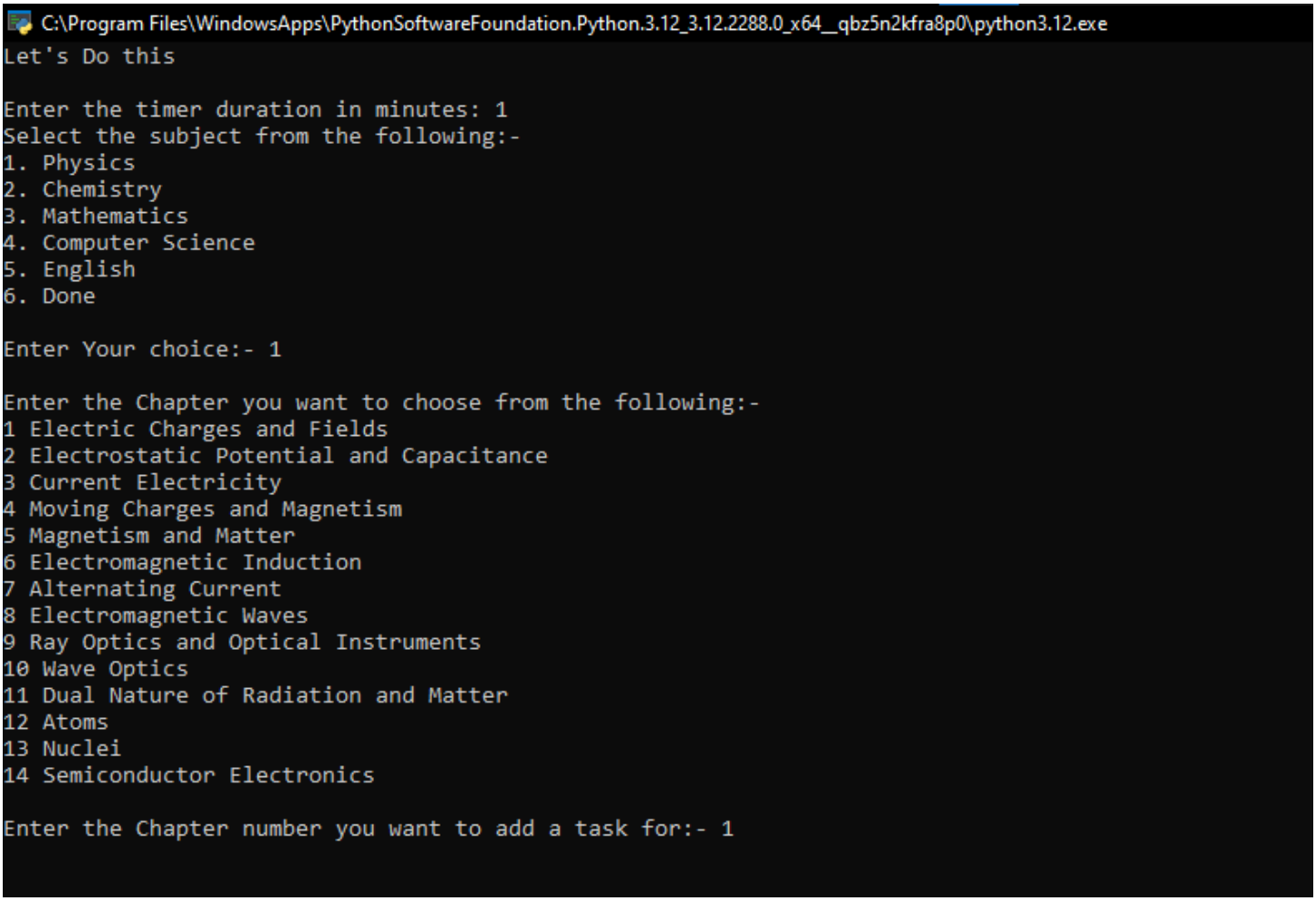
```
    c.commit()
    c.close()
def piechart(task):
    d={}
    for i in range(1,len(task)+1):
        print("Enter the percentage of ",task[i-1]," Is completed??")
        perc=int(input(":-"))
        d[task[i-1]]=perc
    print("\nGraphical Representation of your progress:")
    task_names = list(d.keys())
    task_percentages = list(d.values())
    plt.bar(task_names, task_percentages, color='skyblue')
    plt.xlabel('Tasks')
    plt.ylabel('Completion Percentage (%)')
    plt.title('Task Completion Percentages')
    plt.show()
def after(task,incomp):
    c=mysql.connect(host="localhost", user="Rishabh", password="root",
database="db")
    cr=c.cursor()
    print("\nThank you for using Daily Task Manager")
```

```
    comp=input("\nIs all the task assigned are completed?? y/n:- ")
    if comp=='y':
        print("\nCongratulations! You have completed all your tasks.")
    elif comp=='n':
        print("\nHere are the incomplete tasks:")
        print("\n")
        for i in task:
            print(task.index(i)+1,i)
        print("\n")
        incompno=int(input("Enter the Number of task which are still
incompleted from the above list :- "))
        for j in range (incompno):
            inco=int(input("Enter the task which are still incomplete:- "))
            incomp.append(task[inco-1])
        print(incomp)
        add()
        gp=input("Do you want to see the graph y/n:- ")
        if gp=='y':
            print("\nGraphical Representation of your progress:")
            piechart(task)
        elif gp=='n':
```

```
            print("\nThank you for using Daily Task Manager")
        else:
            print("\nInvalid choice. Please try again.")
    else:
        print("\nInvalid choice. Please try again.")
def mistakes():
    print("\nHere are your past mistakes:")
    c=mysql.connect(host="localhost", user="Rishabh", password="root",
database="db")
    cr=c.cursor()
    cr.execute("SELECT * FROM reasons")
    r=cr.fetchall()
    for i in r:
        print(i[1])
    c.close()
def menu():
    while True:
        print("\nWhat do you want to do??")
        print("1. Start the Work:- ")
        print("2. After completing the Work:- ")
        print("3. View Your Past Mistakes:- ")
```

```
        print("4. Exit the program:- ")
        q=int(input("\nEnter your choice:- "))
        if q==1:
            display(task)
        elif q==2:
            after(task,incomp)
        elif q==3:
            mistakes()
        elif q==4:
            print("\nThank you for using Daily Task Manager")
            break
        else:
            print("\nInvalid choice. Please try again.")
menu()
```

OUTPUT

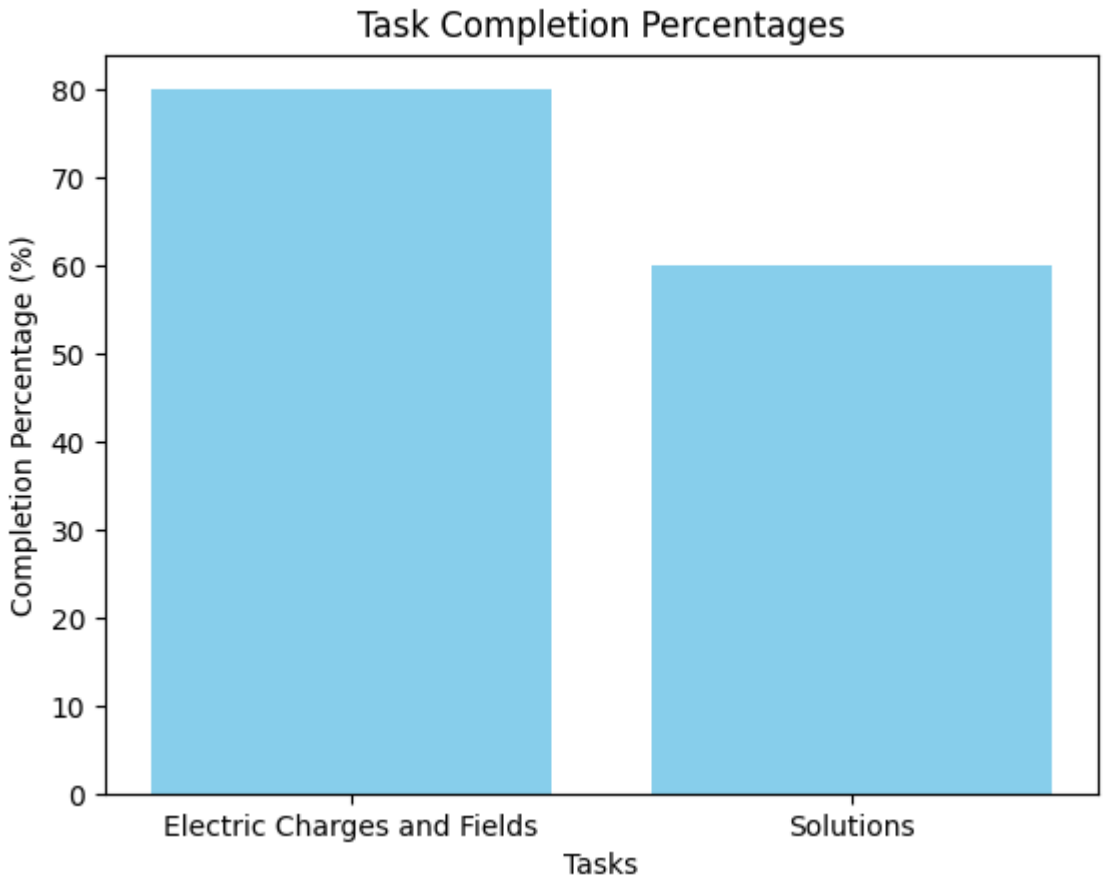

C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.12_3.12.2288.0_x64__qbz5n2kfra8p0\python3.12.exe
Let's Do this
Enter the timer duration in minutes: 1
Select the subject from the following:-
1. Physics
2. Chemistry
3. Mathematics
4. Computer Science
5. English
6. Done
Enter Your choice:- 1
Enter the Chapter you want to choose from the following:-
1 Electric Charges and Fields
2 Electrostatic Potential and Capacitance
3 Current Electricity
4 Moving Charges and Magnetism
5 Magnetism and Matter
6 Electromagnetic Induction
7 Alternating Current
8 Electromagnetic Waves
9 Ray Optics and Optical Instruments
10 Wave Optics
11 Dual Nature of Radiation and Matter
12 Atoms
13 Nuclei
14 Semiconductor Electronics
Enter the Chapter number you want to add a task for:- 1

```
14 Semiconductor Electronics

Enter the Chapter number you want to add a task for:- 1

Task added successfully
Select the subject from the following:-
1. Physics
2. Chemistry
3. Mathematics
4. Computer Science
5. English
6. Done

Enter Your choice:- 2

Enter the Chapter you want to choose from the following:-
1 Solutions
2 Electrochemistry
3 Chemical Kinetics
4 The d- and f-Block Elements
5 Coordination Compounds
6 Haloalkanes and Haloarenes
7 Alcohols, Phenols, and Ethers
8 Aldehydes, Ketones, and Carboxylic Acids
9 Amines
10 Biomolecules

Enter the Chapter number you want to add a task for:- 1

Task added successfully
Select the subject from the following:-
1. Physics
2. Chemistry
3. Mathematics
4. Computer Science
5. English
6. Done

Enter Your choice:-
```

```
10 Biomolecules

Enter the Chapter number you want to add a task for:- 1

Task added successfully
Select the subject from the following:-
1. Physics
2. Chemistry
3. Mathematics
4. Computer Science
5. English
6. Done

Enter Your choice:- 6

Your tasks for today are:
Electric Charges and Fields
Solutions

And the Time you have is  Timer set for 60 seconds 1.0 minutes
00:54
```

```
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.12_3.12.2288.0_x64__qbz5n2kfra8p0\python3.12.exe

Your tasks for today are:
Electric Charges and Fields
Solutions

And the Time you have is  Timer set for 60 seconds 1.0 minutes
00:01
Time's up!

What do you want to do??
1. Start the Work:-
2. After completing the Work:-
3. View Your Past Mistakes:-
4. Exit the program:-

Enter your choice:- 2

Thank you for using Daily Task Manager

Is all the task assigned are completed?? y/n:- n

Here are the incomplete tasks:


1 Electric Charges and Fields
2 Solutions


Enter the Number of task which are still incompleted from the above list :- 1
Enter the task which are still incomplete:- 1
['Electric Charges and Fields']
Enter your reason not to complete the task:- No time
Do you want to see the graph y/n:-
```

```
Enter the Number of task which are still incompleted from the above list :- 1
Enter the task which are still incomplete:- 1
['Electric Charges and Fields']
Enter your reason not to complete the task:- No time
Do you want to see the graph y/n:- y

Graphical Representation of your progress:
Enter the percentage of  Electric Charges and Fields  Is completed??
:-80
Enter the percentage of  Solutions  Is completed??
:-60

Graphical Representation of your progress:
```




```
No time

What do you want to do??
1. Start the Work:-
2. After completing the Work:-
3. View Your Past Mistakes:-
4. Exit the program:-

Enter your choice:- 4
```

BIBLOGRAPHY

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3. https://docs.python.org/3/library/time.html

4. https://matplotlib.org/2.0.2/users