

GOPI BIRLA MEMORIAL SCHOOL



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GOPI BIRLA MEMORIAL SCHOOL

Department of Computer Science

Certificate

This is to certify that the Computer Science Journal has been submitted by the candidate *Ashutosh Pawar* with Seat number *15609856* for Std XII practical examination of the Central Board of Secondary Education in the year 2024-2025.

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Date: 11/04/24

Aim: A Python code to display me in hr, min and sec

Source Code:

```
hr=r=m=sec=0
t=int(input("Enter the desired time in seconds: "))
hr=t//3600
r=t%3600
m=r//60
sec=r%60
print(hr,"Hour")
print(m,"Minute")
print(“and”,sec,"Seconds")
```

Output:

```
Enter the desired time in seconds: 26369
7 Hour
19 Minute
and 29 Seconds
```

Conclusion: The program was successfully executed..

Date: 11/04/24

Aim: A Python code to calculate and display mean, median and mode

Source Code:

```
import statistics  
  
mean=statistics.mean([89, 91, 96, 94, 96, 88, 91, 92, 95, 99, 91, 97,  
91])  
  
median=statistics.median([89, 91, 96, 94, 96, 88, 91, 92, 95, 99, 91,  
97, 91])  
  
mode=statistics.mode([89, 91, 96, 94, 96, 88, 91, 92, 95, 99, 91, 97,  
91])  
  
print("Mean:", mean)  
print("Median:", median)  
print("Mode:", mode)
```

Output:

Mean: 3.07692307692308

Median: 92

Mode: 91

Conclusion: The program was successfully executed..

Date: 11/4/24

Aim: To display the first ten terms of the series

Source Code:

```
print("The first ten terms of the series are:")  
for i in range(1, 11):  
    k=i*i+1  
    print(k, end=' ')
```

Output:

The first ten terms of the series:

2 5 10 17 26 37 50 65 82 101

Conclusion: The program was successfully executed..

Date: 18/4/24

Aim: to check if the entered number is Armstrong or not.

Source Code:

```
n=int(input("Enter a number to check if it is an Armstrong number:
"))
sum=0
while(n>0):
    ans=n%10
    sum+=ans*ans*ans
    n=int(n/10)
if sum==n:
    print("It is an Armstrong Number")
else:
    print("Not an Armstrong Number")
```

Output:

Enter a number to check if it is an Armstrong number: 420

It is an Armstrong Number

Conclusion: The program was successfully executed..

Date: 18/04/24

Aim: to calculate the perimeter of the right-angled triangle

Source Code:

```
import math
pr=int(input("Enter the perpendicular of a triangle:"))
b=int(input("Enter the base of a triangle:"))
hypo=math.sqrt(pr*pr+b*b)
perimtr=pr+b+hypo
print("Hypotenuse =",hypo)
print("Perimeter of triangle =",perimtr)
```

Output:

Enter the perpendicular of a triangle:4

Enter the base of a triangle:3

Hypotenuse = 5.0

Perimeter of triangle = 12.0

Conclusion: The program was successfully executed..

Date: 25/4/24

Aim: to enter the string and check if it's palindrome or not

Source Code:

```
a=input("Enter any string : ")
nl=a[::-1]
if a==nl:
    print ("Given string is a palindrome")
else:
    print ("Given string is not a palindrome")
```

Output:

Enter any string: abcba

Given string is a palindrome

Conclusion: The program was successfully executed.

Date: 25/4/24

Aim: A Python code to display the value of Sine 45° and Cosine 60°

Source Code:

```
import math
a=45; b=60
x=22/(7*180)*a
y= 22/(7*180)*b
sin= math.sin(x)
cos= math.cos(y)
print("The value of Sine 45 degree =",sin)
print("The value of Cosine 60 degree =",cos)
```

Output:

The value of Sine 45 degree =0.7073302780849811

The value of Cosine 60 degree =0.4996349289865546

Conclusion: The program was successfully executed.

Date: 11/7/24

Aim: display the smallest digit of a number

Source Code:

```
n=int(input("Enter a number:"))
nst=str(n)
n=0
for i in nst:
    n=int(i)
    if int(i)<n:
        n=i
    else:
        continue
print("The smallest digit in the number is: ",n)
```

Output:

Enter a number:1212540

The smallest digit in the number is: 0

Conclusion: The program was successfully executed.

Date: 11/7/24

Aim: to calculate the difference between compound interest and simple interest

Source Code:

```
r1=6
r2=8
r3=10
p=int(input("Enter principal value:"))
amt=p*(1+r1/100)*(1+r2/100)* (1+r3/100)
ci=amt-p
print("Amount =",amt)
print("Compund interest =",ci)
```

Output:

```
Enter principal value:151436
Amount = 190700.326080000003
Compund interest = 39264.326080000003
```

Conclusion: The program was successfully executed.

Date: 18/7/24

Aim: Display the next prime number

Source Code:

```
n=int(input("Enter a number: "))
c=c1=m=0
for i in range(1, n+1):
    if(n%i==0):
        c=c+1
if(c==2):
    print(n, "is a prime number")
else:
    a=n
    m=n
    while(c1!=2):
        a=a+1
        c1=0
        for p in range(1, a+1):
            if(a%p==0):
                c1=c1+1
    print("The next prime number to ", m, " is ",a)
```

Output:

enter a number: 27

The next prime number to 27 is 29

Conclusion: The program was successfully executed.

Date: 18/7/24

Aim: to check a perfect number or automorphic number

Source Code:

```
p=c=k=s=0
print("""Choose and type one of the following choices:
1.to check a perfect number
2.to check an automorphic number""")
ch=int(input("enter your choice: "))
if(ch==1):
    n=int(input("enter a number: "))
    for i in range(1, n):
        if(n%i==0):
            s=s+i
    if(s==n):
        print(n, "is a perfect number")
    else:
        print(n,"is not a Perfect Number")
elif(ch==2):
    m=int(input("enter a number"))
    ml=m
    p=m*m
    while(m!=0):
        m=m//10
        c=c+1
```



```
k=int(math.pow(10,c))
a=p%k
if(a==m1):
    print("m1, is an automorphic number")
else:
    print(m1,"is an not automorphic number")
else:
    print("Wrong choice!")
```

Output:

Choose and type one of the following choices:

1.to check a perfect number

2.to check an automorphic number

enter your choice: 1

enter a number: 7

7 is not a Perfect Number

Conclusion: The program was successfully executed.

Date: 18/7/24

Aim: To check a happy number

Source Code:

```
s=d=0
n=int(input("Enter a number:"))
s=n
while(s>9):
    n=s
    s=0
    while(n>0):
        d=n%10
        s=s+d*d
        n=n//10
if(s==1):
    print("it is a happy number")
else:
    print("it is not a happy number")
```

Output:

```
Enter a number:31
it is a happy number
```

Conclusion: The program was successfully executed.

Date: 25/7/24

Aim: to illustrate break statement

Source Code:

```
n=int(input("enter a number:"))
print("the digits are:")
while(n>0):
    d=n%10
    print(d)
    if d==0:
        print("zero encounters and the code terminates")
        break
    n=n//10
```

Output:

```
enter a number:40583
the digits are:
3
8
5
0
zero encounters and the code terminates
```

Conclusion: The program was successfully executed.

Date: 25/7/24

Aim: To display a pattern

Source Code:

```
p=7
print("the pattern:")
for i in range(1,6):
    for j in range(9,p,-2):
        print(j,end=' ')
    print()
    p=p-2
```

Output:

The pattern:

```
9
9 7
9 7 5
9 7 5 3
9 7 5 3 1
```

Conclusion: The program was successfully executed.

Date: 25/7/24

Aim: To display another type of pattern

Source Code:

```
p=1
print("the pattern:")
for i in range(1,6):
    for j in range(1,i+1):
        print(p,end=' ')
    p=p+1
    print()
```

Output:

the pattern:

```
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
```

Conclusion: The program was successfully executed.

Date: 08/8/24

Aim: menu-driven program to push, pop, peek and display elements

```
a=[]
```

```
def push(a):
```

```
    value=int(input("Enter element to push:"))
```

```
    a.append(value)
```

```
    print("element pushed successfully")
```

```
def popelement(a):
```

```
    x=a.pop()
```

```
    print("popped element=",x)
```

```
def peek(a):
```

```
    print("element at the top=",a[-1])
```

```
def display(a):
```

```
    for i in range(len(a)-1,-1,-1):
```

```
        print(a[i])
```

```
while True:
```

```
    ch=int(input("""Choose an option from the following:
```

```
1)push
```

```
2)pop
```

```
3)peek
```

```
4)display: """))
```

```
    if ch==1:
```

```
        push(a)
```

```
    elif ch==2:
```

```
        if len(a)==0:
```

```
        print("stack overflow")
    else:
        popelement(a)
    elif ch==3:
        if len(a)==0:
            print("stack overflow")
        else:
            peek(a)
    elif ch==4:
        if len(a)==0:
            print("stack overflow")
        else:
            display(a)
    elif ch==5:
        break
    else:
        print("invalid input")
```

Output:

Choose an option from the following:

- 1)push
- 2)pop
- 3)peek
- 4)display:1

Enter element to push:2

element pushed successfully

Choose an option from the following:

1)push

2)pop

3)peek

4)display:1

Enter element to push3

element pushed successfully

Choose an option from the following:

1)push

2)pop

3)peek

4)display:1

Enter element to push4

element pushed successfully

Choose an option from the following:

1)push

2)pop

3)peek

4)display:1

Enter element to push5

element pushed successfully

Choose an option from the following:

1)push

2)pop

3)peek

4)display:4

5

4

3

2

Choose an option from the following:

1)push

2)pop

3)peek

4)display:2

popped element= 5

Choose an option from the following:

1)push

2)pop

3)peek

4)display:3

element at the top= 4

Conclusion: The program was successfully executed.

Date: 22/8/24

Aim: To write records in a CSV file

Source Code:

```
import csv
with open("Holiday.csv","w",newline=")as fobj:
    f=csv.writer(fobj)
    f.writerow(['ROLL','NAME','MARKS'])
    while True:
        roll=int(input("enter roll no:"))
        name=input("enter name:")
        marks=int(input("enter marks:"))
        data=[roll,name,marks]
        f.writerow(data)
        ch=int(input("1 enter more\n2 exit\nenter your choice"))
        if ch==2:
            break
    print("file created successfully")
```

Output:

```
enter roll no:1
enter name:mark
enter marks:97
1 enter more
2 exit
```

enter your choice1

enter roll no:2

enter name:george

enter marks:98

1 enter more

2 exit

enter your choice1

enter roll no:3

enter name:faraday

enter marks:99

1 enter more

2 exit

enter your choice2

file created successfully

Conclusion: the file was successfully created

Date: 19/9/24

Aim: to create a database in python

Source Code:

```
import mysql.connector as c
con=c.connect(host='localhost',
user='root',
password='1234')
cur=con.cursor()
cur.execute('create database if not exists comp24')
con.commit()
print("Database created successfully")
```

Output:

Database created successfully

Conclusion: database created successfully.

```

Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 12
Server version: 8.0.39 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database school24;
Query OK, 1 row affected (0.07 sec)

mysql> use school24;
Database changed
mysql> create table employee(
-> code integer primary key,
-> name varchar(30) NOT NULL,
-> desig varchar(30) NOT NULL,
-> salary decimal check(salary>10000),
-> doj date,
-> state varchar(30),
-> mob char(10) unique key,
-> gender char default 'M'
-> );
Query OK, 0 rows affected (0.16 sec)

mysql> show tables;
+-----+
| Tables_in_school24 |
+-----+
| employee            |
+-----+
1 row in set (0.03 sec)

mysql> desc employee;
+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+
| code  | int           | NO   | PRI | NULL    |       |
| name  | varchar(30)   | NO   |     | NULL    |       |
| desig | varchar(30)   | NO   |     | NULL    |       |
| salary | decimal(10,0) | YES  |     | NULL    |       |
| doj   | date          | YES  |     | NULL    |       |
| state | varchar(30)   | YES  |     | NULL    |       |
| mob   | char(10)      | YES  | UNI | NULL    |       |
| gender | char(1)       | YES  |     | M       |       |
+-----+
0 rows in set (0.03 sec)

mysql> select * from employee;
Empty set (0.01 sec)

mysql> insert into employee values(101,'Sourish','Manager',50000,'2022-10-11',
'Karnataka','12345','M');
Query OK, 1 row affected (0.02 sec)

mysql> insert into employee values(102,'Kosha','Asst Manager',45000,'2020-06-09','Chhattisgarh','12355','F');
Query OK, 1 row affected (0.01 sec)

mysql> insert into employee values(103,'Sameer','Clerk',45000,'2021-06-09','Punjab','12455','M');
Query OK, 1 row affected (0.01 sec)

mysql> select * from employee;
+-----+
| code | name      | desig      | salary | doj       | state      | mob      | gender |
+-----+
| 101  | Sourish   | Manager    | 50000  | 2022-10-11 | Karnataka | 12345    | M      |
| 102  | Kosha     | Asst Manager | 45000  | 2020-06-09 | Chhattisgarh | 12355    | F      |
| 103  | Sameer    | Clerk      | 45000  | 2021-06-09 | Punjab     | 12455    | M      |
+-----+
3 rows in set (0.00 sec)

mysql> insert into employee values(104,'Rahul','Clerk',44000,'2023-06-09','Tamil Nadu','17455','M');
Query OK, 1 row affected (0.01 sec)

mysql> select * from employee;
Empty set (0.01 sec)

mysql> insert into employee values(101,'Sourish','Manager',50000,'2022-10-11',
'Karnataka','12345','M');
Query OK, 1 row affected (0.02 sec)

mysql> insert into employee values(102,'Kosha','Asst Manager',45000,'2020-06-09','Chhattisgarh','12355','F');
Query OK, 1 row affected (0.01 sec)

mysql> insert into employee values(103,'Sameer','Clerk',45000,'2021-06-09','Punjab','12455','M');
Query OK, 1 row affected (0.01 sec)

mysql> select * from employee;
+-----+
| code | name      | desig      | salary | doj       | state      | mob      | gender |
+-----+
| 101  | Sourish   | Manager    | 50000  | 2022-10-11 | Karnataka | 12345    | M      |
| 102  | Kosha     | Asst Manager | 45000  | 2020-06-09 | Chhattisgarh | 12355    | F      |
| 103  | Sameer    | Clerk      | 45000  | 2021-06-09 | Punjab     | 12455    | M      |
+-----+
3 rows in set (0.00 sec)

mysql> insert into employee values(104,'Rahul','Clerk',44000,'2023-06-09','Tamil Nadu','17455','M');
Query OK, 1 row affected (0.01 sec)

mysql> select code,name,salary from employee;
+-----+
| code | name      | salary |
+-----+
| 101  | Sourish   | 50000  |
| 102  | Kosha     | 45000  |
| 103  | Sameer    | 45000  |
| 104  | Rahul     | 44000  |
+-----+
4 rows in set (0.00 sec)

```

```
mysql> select * from employee where code=103;
```

code	name	desig	salary	doj	state	mob	gender
103	Sameer	Clerk	45000	2021-06-09	Punjab	12455	M

1 row in set (0.01 sec)

```
mysql> select * from employee where design='clerk';
```

code	name	desig	salary	doj	state	mob	gender
103	Sameer	Clerk	45000	2021-06-09	Punjab	12455	M
104	Rahul	Clerk	44000	2023-06-09	Tamil Nadu	17455	M

2 rows in set (0.00 sec)

```
mysql> insert into employee values(105,'Sachin','MTS',43000,'2023-07-09','Madhya Pradesh','18455','M');
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into employee values(106,'Faraday','MTS',42000,'2021-09-09','Maharashtra','11455','M');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from employee;
```

code	name	desig	salary	doj	state	mob	gender
101	Sourish	Manager	50000	2022-10-11	Karnataka	12345	M
102	Kosha	Asst Manager	45000	2020-06-09	Chhattisgarh	12355	F
103	Sameer	Clerk	45000	2021-06-09	Punjab	12455	M
104	Rahul	Clerk	44000	2023-06-09	Tamil Nadu	17455	M
105	Sachin	MTS	43000	2023-07-09	Madhya Pradesh	18455	M
106	Faraday	MTS	42000	2021-09-09	Maharashtra	11455	M

6 rows in set (0.00 sec)

```
mysql> select * from employee where salary=45000 and design='clerk';
```

code	name	desig	salary	doj	state	mob	gender
103	Sameer	Clerk	45000	2021-06-09	Punjab	12455	M

1 row in set (0.01 sec)

```
mysql> select * from employee where name likesa;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'sa' at line 1

```
mysql> select * from employee where name likes'a';
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'a' at line 1

```
mysql> select * from employee where name likes'sa';
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'sa' at line 1

```
mysql> select * from employee where name like 'sa';
```

code	name	desig	salary	doj	state	mob	gender
103	Sameer	Clerk	45000	2021-06-09	Punjab	12455	M
105	Sachin	MTS	43000	2023-07-09	Madhya Pradesh	18455	M

2 rows in set (0.04 sec)

```
mysql> update employee set state='Telengana' where code=103;
Query OK, 1 row affected (0.02 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select * from employee;
```

code	name	desig	salary	doj	state	mob	gender
101	Sourish	Manager	50000	2022-10-11	Karnataka	12345	M
102	Kosha	Asst Manager	45000	2020-06-09	Chhattisgarh	12355	F
103	Sameer	Clerk	45000	2021-06-09	Telengana	12455	M
104	Rahul	Clerk	44000	2023-06-09	Tamil Nadu	17455	M
105	Sachin	MTS	43000	2023-07-09	Madhya Pradesh	18455	M
106	Faraday	MTS	42000	2021-09-09	Maharashtra	11455	M

6 rows in set (0.00 sec)

```
mysql>
```

Date: 03/10/24

Aim: to connect python with mysql

Source Code:

```
import mysql.connector as c
con=c.connect(host='localhost',
              user='root',
              password='ashu@105',
              database='pracs')
if con.is_connected():
    print("Successfully connected")
```

Output:

Successfully connected

Conclusion: MySQL was successfully connected with python.

Date: 03/10/24

Aim: To make a menu-driven program for the table of MySQL created, in python.

Source Code:

SQL:

```
CREATE DATABASE library;  
USE library;  
CREATE TABLE books (  
    id INT AUTO_INCREMENT PRIMARY KEY,  
    title VARCHAR(255),  
    author VARCHAR(255),  
    year INT  
);
```

Python:

```
import mysql.connector  
def connect_to_db():  
    return mysql.connector.connect(  
        host="localhost",  
        user="root",  
        password="ashu@105",  
        database="librarypracs")  
  
def view_records(cursor):  
    cursor.execute("SELECT * FROM books")
```



```

rows = cursor.fetchall()
print("\n--- Books Table ---")
for row in rows:
    print(f"ID: {row[0]}, Title: {row[1]}, Author: {row[2]}, Year: {row[3]}")
print()

```

```

def insert_record(cursor, connection):
    title = input("Enter the book title: ")
    author = input("Enter the book author: ")
    year = int(input("Enter the publication year: "))
    query = "INSERT INTO books (title, author, year) VALUES (%s, %s, %s)"
    cursor.execute(query, (title, author, year))
    connection.commit()
    print("Record inserted successfully!\n")

```

```

def update_record(cursor, connection):
    book_id = int(input("Enter the ID of the book to update: "))
    new_title = input("Enter the new title: ")
    new_author = input("Enter the new author: ")
    new_year = int(input("Enter the new publication year: "))
    query = "UPDATE books SET title = %s, author = %s, year = %s WHERE id = %s"
    cursor.execute(query, (new_title, new_author, new_year, book_id))
    connection.commit()

```

```
print("Record updated successfully!\n")
```

```
def delete_record(cursor, connection):
```

```
    book_id = int(input("Enter the ID of the book to delete: "))
```

```
    query = "DELETE FROM books WHERE id = %s"
```

```
    cursor.execute(query, (book_id,))
```

```
    connection.commit()
```

```
    print("Record deleted successfully!\n")
```

```
def main_menu():
```

```
    connection = connect_to_db()
```

```
    cursor = connection.cursor()
```

```
    while True:
```

```
        print("Menu:")
```

```
        print("1. View Records")
```

```
        print("2. Insert Record")
```

```
        print("3. Update Record")
```

```
        print("4. Delete Record")
```

```
        print("5. Exit")
```

```
        choice = input("Enter your choice (1-5): ")
```

```
        if choice == "1":
```

```
            view_records(cursor)
```

```
elif choice == "2":
    insert_record(cursor, connection)
elif choice == "3":
    update_record(cursor, connection)
elif choice == "4":
    delete_record(cursor, connection)
elif choice == "5":
    print("Exiting program. Goodbye!")
    break
else:
    print("Invalid choice. Please try again.\n")

cursor.close()
connection.close()
```

Output:

Menu:

1. View Records
2. Insert Record
3. Update Record
4. Delete Record
5. Exit

Enter your choice (1-5): 1

--- Books Table ---

(No records found)

Menu:

1. View Records
2. Insert Record
3. Update Record
4. Delete Record
5. Exit

Enter your choice (1-5): 2

Enter the book title: The Great Gatsby

Enter the book author: F. Scott Fitzgerald

Enter the publication year: 1925

Record inserted successfully!

Menu:

1. View Records
2. Insert Record
3. Update Record
4. Delete Record
5. Exit

Enter your choice (1-5): 1

--- Books Table ---

ID: 1, Title: The Great Gatsby, Author: F. Scott Fitzgerald, Year: 1925

Menu:

1. View Records
2. Insert Record
3. Update Record
4. Delete Record
5. Exit

Enter your choice (1-5): 3

Enter the ID of the book to update: 1

Enter the new title: The Great Gatsby (Updated)

Enter the new author: F. Scott Fitzgerald

Enter the new publication year: 1926

Record updated successfully!

Menu:

1. View Records
2. Insert Record
3. Update Record
4. Delete Record
5. Exit

Enter your choice (1-5): 1

--- Books Table ---

ID: 1, Title: The Great Gatsby (Updated), Author: F. Scott Fitzgerald,
Year: 1926

Menu:

1. View Records
2. Insert Record
3. Update Record
4. Delete Record
5. Exit

Enter your choice (1-5): 4

Enter the ID of the book to delete: 1

Record deleted successfully!

Menu:

1. View Records
2. Insert Record
3. Update Record
4. Delete Record
5. Exit

Enter your choice (1-5): 1

--- Books Table ---

(No records found)

Menu:

1. View Records
2. Insert Record
3. Update Record
4. Delete Record
5. Exit

Enter your choice (1-5): 5

Exiting program. Goodbye!

Conclusion: The program was successfully executed.