

Practical File

INFORMATICS PRACTICES (065)

Session : 2022-23

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(IP Teacher)

Submitted by : _____

Class & RollNo: _____



MRA DAV Public School, Solan (HP)

Certificate

This is to certify that _____, Roll No. _____ of class _____ Session _____ has prepared the Practical File as per the prescribed Practical Syllabus of Informatics Practices Code-065, Class-11 AISSCE (CBSE) under my supervision.

It is the original work done by him/her. His/ her work is really appreciable.

Signature of Teacher

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Section-A

Programming in Python

Practical No 1

Problem: Find the number of even and odd

Code:

```
File Edit Format Run Options Window Help
# TO Find number of even and odd

num = int(input("Enter any number"))
even = 0
odd = 0
for x in range(num):
    if not x%2:
        even = even+1
    else:
        odd = odd+1
print("Total number of even number:",even)
print("Total number of odd number:",odd)

|
```

Output:

```
Python 3.8.3 (tags/v3.8.3:6f8c832, May 13 2020, 22:37:02)
Type "help", "copyright", "credits" or "license()" for more
>>>
===== RESTART: =====
Enter any number6
Total number of even number: 3
Total number of odd number: 3
>>> |
```

Section-B

Database MYSQL

Practical - 11

Problem : Write a SQL statement to create a simple table countries including columns country_id, country_name and region_id.

Code:

```
create table countries(country_id integer, country_name  
char(77), region_id integer);
```

Output:

```
mysql>  
mysql> use abc  
Database changed  
mysql> create table countries(country_id integer, country_name char(77), region_id integer);  
Query OK, 0 rows affected (1.79 sec)  
mysql>
```

List of Practical Question XI (2022-23)
Informatics Practices

S.no	Practical Question Python																		
1	Write a Short program that asks for your height in Centimeters and then converts your height to feet and inches.(1 foot = 12 inches, 1 inch = 2.54cm)																		
2	Write a Program to find the area of a triangle using formula $\frac{1}{2} \times \text{base} \times \text{height}$																		
3	Write a program to read two numbers and print their quotient and remainder.																		
4	Write a python program to compute simple interest and compound interest.																		
5	Write a program to input marks in 3 subject, compute average and then calculate grade as per following guidelines: <table><tr><td>Grade</td><td>Remarks</td><td>Marks</td></tr><tr><td>A</td><td>OutStanding</td><td>80% and Above</td></tr><tr><td>B</td><td>Excellent</td><td>70-79%</td></tr><tr><td>C</td><td>Very Good</td><td>60-69%</td></tr><tr><td>D</td><td>Good</td><td>40-60%</td></tr><tr><td>E</td><td>Needs Improvement</td><td>39% and Below</td></tr></table>	Grade	Remarks	Marks	A	OutStanding	80% and Above	B	Excellent	70-79%	C	Very Good	60-69%	D	Good	40-60%	E	Needs Improvement	39% and Below
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D	Good	40-60%																	
E	Needs Improvement	39% and Below																	
6	Write a Program that prints out a list of the integers from 1 to 20 and their Squares.																		
7	Write a program in python to input three angles and determine that they are formed a triangle or not.																		
8.	Write a program in python to print sum of first 20 even number.																		
9	Write a program to calculate BMI of a person after inputting its weight in Kgs and height in meters and then print the Nutritional Status as per following table: <table><tr><td>Nutritional Status</td><td>WHO criteria BMI cut - off</td></tr><tr><td>Underweight</td><td><18.5</td></tr><tr><td>Normal</td><td>18.5-24.9</td></tr><tr><td>Overweight</td><td>25-29.9</td></tr><tr><td>Obese</td><td>>=30</td></tr></table>	Nutritional Status	WHO criteria BMI cut - off	Underweight	<18.5	Normal	18.5-24.9	Overweight	25-29.9	Obese	>=30								
Nutritional Status	WHO criteria BMI cut - off																		
Underweight	<18.5																		
Normal	18.5-24.9																		
Overweight	25-29.9																		
Obese	>=30																		
10	Write a program to accept the age of n employees and count the number of persons in the following age group: i) 26-35 ii) 36-45 iii) 46-55																		
11	Write a Program that reads a string and checks whether it is a palindrome string or not.																		
12	Write a program to find entered year is leap year or not.																		
13	Write a program to find which no is greater no in 2 numbers.																		
14	Write a program to remove all the elements present in a list.																		
15	Given a Python list you should be able to display Python list in the following order lst = [100, 200, 300, 400, 500] Expected output: [500, 400, 300, 200, 100]																		
16	Write a program that reverses a list of integers (in place).																		
17	Write a program to count no occurrence of elements in a list.																		
18	Write a Python program to sort (ascending and descending) a dictionary by value.																		
19	Write a program to enter names of employees and their salaries as input and store them in dictionary																		
20	Create a dictionary 'ODD' of odd numbers between 1 and 10, where the key is the decimal number and the value is the corresponding number in words. Perform the following operations on this dictionary: (a) Display the keys (b) Display the values (c) Display the items																		

	(d) Find the length of the dictionary (e) Check if 7 is present or not (f) Check if 2 is present or not (g) Retrieve the value corresponding to the key 9 (h) Delete the item from the dictionary corresponding to the key 9.
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Do the entire question in Practical File.

Data Base Management: MY SQL Practical Questions

S.no	MY SQL Practical Question
21	To create a database Sale
22	To create table product with the product_id, product_name, suppliername, quantity, unitprice, dateofpurchase as attributes where the product_id is the primary key.
23	To insert the details of at least 20 products in the above table.
24	To display the entire content of table.
25	To display product_id, productname and unitprice of those product whose unitprice more than 50.
26	To find the average of price of the product.
27	To find the number of product, which is purchase from the same supplier.
28	To display the information all the products, whose name starts with 'MA' (Examples: Maggi, Mangobite,...)
29	To display productid, productname,quantity of those products whose dateodpurchase between '2005- 01-01' and '2005-12-31'.
30	To add new field name amount in product table
31	Write a SQL statement to modify column amount by calculating the total amount of every product .
32	To display the list of distinct products
33	Write a SQL statement to delete those records whose dateofpurchase is '2020-10-10'
34	Write a SQL statement to create a duplicate copy of table product.
35	Write a SQL statement to display the structure of product table.

Rajesh Verma, Practical File IP Sample Design