EDUCATION FOR LIFE AIS ASIAN INTERNATIONAL SCHOOL

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Campus
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HOLIDAY HOMEWORK

SESSION:2020-21

SUBJECT : ENGLISH

ATTEMPT ANY ONE.

1. Childhood is that state of paradise which lies buried deep inside a man's consciousness throughout his life. But there are many children around us who are deprived of their glorious childhood. Write in about 200-250 words how as a student would you contribute in shaping the lives of these underprivileged children.

2. Create a poster on 'environmental awareness'

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SUBJECT: PHYSICS

Topic : Activity

List of Activities:

1. To determine mass of a given body using a metre scale by principle of moments.
2. To measure the force of limiting friction for rolling of a roller on horizontal plane.
3. To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time.
4. To observe and explain the effect of heating on a bi-metallic strip.
5. To note the change in level of liquid in a container on heating and interpret the observations.
6. To study the effect of detergent on surface tension of water by observing capillary rise.

The above activities would be written in the following format

1. Aim
2. Apparatus
3. Principle/Theory
4. Procedure
5. Observation(if any)
6. Calculation(if any)
7. Result
8. Precaution
9. Source of error

N.B: For doing these activities students will use hard bound file. They can take help of NCERT Laboratory Manual or Comprehensive Practical book and the instruction by their respective subject teachers.

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SUBJECT: INFORMATION PRACTICES

CLASS	SUBJECT	TOPIC OF THE PROJECT	GUIDELINE FOR THE PROJECT
XI	INFORMATICS PRACTICES	PROGRAMMING IN PYTHON	1. The practical file should be done in A4 sheets. 2. The file should comprise of an introduction, contents, page number, Label 3. You have to type the question / Program. 4. You have to paste the screen shot of the code along with its output.

Sample

Program 26: Write a method to create subsets from a 1D array.

Code:

prog_subset1.py - C:/Users/preeti/AppData/Local/Programs/Python/Pytho...

File Edit Format Run Options Window Help

```
#Subset from a 1D array
import numpy as np
def sub_lists(list1):
    # store all the sublists
    sublist = [[]]  # first loop
    for i in range(len(list1) + 1):
        # second loop
        for j in range(i + 1, len(list1) + 1):
            # slice the subarray
            sub = list1[i:j]
            sublist.append(sub)
    return sublist

x = np.array([1, 2, 3, 4])  # driver code
print(sub_lists(x))
```

Ln: 20 Col: 0

Output:

Python 3.7.0 Shell

File Edit Shell Debug Options Window Help

```
>>>
 RESTART: C:/Users/preeti/AppData/Local/Programs/
Python/Python37-32/prog_subset1.py
[[], array([1]), array([1, 2]), array([1, 2, 3]),
 array([1, 2, 3, 4]), array([2]), array([2, 3]),
array([2, 3, 4]), array([3]), array([3, 4]), arra
y([4])]
>>>
```

Ln: 9 Col: 4

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No.	Name of Practical
1.	WAP to compute x_n of two given integers x and n.
2.	WAP for calculating the simple interest.
3.	WAP to accept a number from the user and display whether it is an even number or an odd number.
4.	WAP to accept percentage of a student and display the grade accordingly.
5.	WAP to print the Fibonacci series up to a certain limit.
6.	WAP to display prime numbers up to a certain limit.
7.	WAP to accept a number, find and display whether it's an Armstrong number or not.
8.	WAP to accept a number and find out whether it is a perfect number or not.
9.	WAP to print the sum of the exponential series $1+x_1/1!+x_2/2!+\ldots\ldots x_n/(n)!-$
10.	WAP to print the following pattern: 1 1 2 1 2 3
11.	WAP to accept a string and display whether it is a palindrome.
12.	WAP that counts the number of alphabets and digits, upper case letters, lower case letters, spaces and other characters in the string entered.
13.	WAP to accept a string (a sentence) and return a string with the first letter of each word in capital letter.
14.	WAP to remove all odd numbers from the given list.
15.	WAP to display the second largest element of a given list.
16.	WAP to display the cumulative elements of a given list.
17.	WAP to display the frequencies of all the elements of a list.
18.	WAP in Python to display those strings which are starting with 'A' in the given list.
19.	WAP in Python to find and display the sum of all the values which are ending with 3 from a list.
20.	WAP to shift the positive numbers to the left and the negative numbers to the right.
21.	WAP to swap the content with the next value divisible by 7.
22.	WAP to accept values from the user and create a tuple.
23.	Write a program to input the total number of sections and stream names in 11_{th} class and display all information on the output screen.
24.	Write a Python program to input names of 'n' countries along with their capitals and currencies, store them in a dictionary and display them in a tabular form. Also search for and display a particular country.
25.	Write a program to create an array from range 0 to 9.

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SUBJECT: COMPUTER SCIENCE

CLASS	SUBJECT	TOPIC OF THE PROJECT	GUIDELINES FOR THE PROJECT
XI	Computer Science	Create a database of having a table named as STUD	1. Create a table in MySql named as STUD with the attributes Admission_id, Roll_no, Class, Name, Ph_no, Subjects. 2. Make Admission_id as Primary key. 3. Add at least 10 students details in that table. 4. Display all the data of the table. 5. Take screenshot of each and every command and paste it in a word file. 6. Write all the steps in details after every picture. 7. Create a PDF of it.

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SUBJECT: HINDI

CLASS	SUBJECT	TOPIC OF THE PROJECT	GUIDELINES FOR THE PROJECT
XI	Hindi	• गज़ल	• पाठ‘गज़ल’ के आधार पर सुप्रसिद्धगज़लकारदुष्यंत कुमारकेगजलों काभावार्थलिखते हुए, आज केशासनव्यवस्थाकोअपनेश ब्दों में लिखें। • गृहकार्य के लिए एक सफ़ेद चार्ट पेपर, रंगीन पेंसिल तथा रंगों का प्रयोग करना है।

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SUBJECT:WEB APPLICATION

CLASS	SUBJECT	TOPIC OF THE PROJECT	GUIDELINES FOR THE PROJECT
XI	Web Application	Create a Web page	1. Create a webpage using HTML, CSS and JavaScript. 2. Use <h> tag within the body tag to display the webpage name. 3. Use paragraph to display your name. 4. Use a button with text “Info” written on it. 5. Clicking on that button it will show your class, section and stream in an alert box. 6. Take the screenshot of the webpage.

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SUBJECT: PHYSICAL EDUCATION

CLASS	SUBJECT	TOPIC OF THE PROJECT	GUIDELINES FOR THE PROJECT
XI	**Physical Education** **(048)**	Record File shall include: 1: Labelled diagram of 400 M Track & Field with computations. 2:Computation of BMI from family or neighbourhood 3: Explain History ,skills,Labelled diagram of field & equipment of any one game of your choice out of the list given. 4: List of current National Awardees (Dronacharya Award, Arjuna Award & Rajiv Gandhi Khel Ratna Award. 5: Pictorial presentation of any five Asanas for improving concentration.	Write all topics in a single shoe lace file using Colour pens, crayons or sketch pens etc.Pictures can be pasted/drawn if required. Draw and indicate the measurements.. Compute data and show in a tabular form with their name and age and BMI catagories. Select any one from following games for explanation: Athletics/Badminton/Chess/Swimming/ Rope-Skipping /Yoga Prepare a complete name list of All awardees of year 2020 with their achievements in different games. Explain process benefits and contradication both in words and with the help of pictures drawn by you or pictures can be pasted if required.