

## practical no.1

Aim:- Create a simple HTML webpage of the following topic  
College Profile information about Computer course. The page  
must have an appropriate title, background colour.  
And any at the centre paragraph must contain the  
text in the term of alignment and font size.

\* code:-

```
<HTML>
<HEAD>
<TITLE> COLLEGE PROFILE </TITLE>
</HEAD>
<BODY BGCOLOR = "GREEN"><@CENTER><V><B> M.D COLLEG
E
PROFILE </B></V></CENTER>
<BR>
<BR>
<P ALTGH = "@CENTER" ><FONT SIZE = "15" > THIS COLLEGE
PROVIDE COMPUTER SCIENCE COURSES FOR 11TH, 12TH,
BSC, CS, MSC. CS </FONT><IP>
<P> PAPER 1 SOFTWARE </P>
<BR>
<BR>
<P> PAPER 2 HARDWARE </P>
</BODY>
</HTML>
```

~~AS~~

## practical No. 2.

Aim:- Create Simple HTML Web page of the following topic Student result. Create a table at centre with maximum 5 columns and 8 rows. the page must have an appropriate title, 1 colspan and row span the table must consists of following content. Such as subject name, marks, total marks, percentage.

\* Code:-

```

<HTML>
<HEAD>
<TITLE> STUDENT - MARKSHEET </TITLE>
<HEAD>
<BODY>
<CENTER><B><U><FONT SIZE = "20"> STUDENT MARKSHEET
</FONT></U></B></CENTER>
<BR>
<CENTER><B><U><FONT SIZE = "15" COLOR = "RED"> DEPARTMENT
CS </FONT></U></B></CENTER>
<BR>
<CENTER><TABLE BORDER = "1"></CENTER>
<TR>
<TH COLSPAN = "5"> MARKSHEET </TH>
<TR>
<TR>
<TH> SUBJECT </TH>
<TH> MAX. MARKS </TH>
<TH> THEORY </TH>
<TH> PRACTICAL </TH>

```

<TH> MARKS OBTAINED <ITH>

<ITR>

<TR>

<TH> PHYSICS <ITH>

<TD> 100 <ITD>

<TD> 50 <ITD>

<TD> 40 <ITD>

<TD> 90 <ITD>

<ITR>

<TR>

<TH> CHEMISTRY <ITH>

<TD> 100 <ITD>

<TD> 50 <ITD>

<TD> 40 <ITD>

<TD> 90 <ITD>

<ITR>

<TR>

<TH> ENGLISH <ITH>

<TD> 100 <ITD>

<TD> 50 <ITD>

<TD> 40 <ITD>

<TD> 90 <ITD>

<ITR>

<TR>

<TH> MATHEMATICS <ITH>

<TD> 100 <ITD>

<TD> 50 <ITD>

<TD> 40 <ITD>

<TD> 90 <ITD>

<1TR>

<1TR>

<1TH> (S1 <1TH>)

<1Td> 100 <1Td>

<1Td> 50 <1Td>

<1Td> 40 <1Td>

<1Td> 90 <1Td>

<1TR>

<1TR> (S2 <1TH>)

<1Td> 100 <1Td>

<1Td> 50 <1Td>

<1Td> 40 <1Td>

<1Td> 90 <1Td>

<1TR>

<1TR>

<1TH> Total <1TH>

<1Td> 600 <1Td>

<1Td> colspan="3"><center> 540 </center>

<1Td>

<1TR>

<1TH> percentage = <1TH>

<1Td colspan="4"> 90% <1Td>

<1TR>

<1Table>

<1Body>

<1HTML>

AB

## PRACTICAL NO.3.

Aim :- TO create a simple HTML webpage using `<ol>`, `<ol>`, and `<li>` tags with different type attributes to display a refreshment list, and apply a pink background color to the webpage.

Code :-

```

<HTML>
<HEAD>
<title> Refreshment List </title>
</head>
<body Bgcolor = "pink">
<h2> Refreshment List </h2>
<ol type = "1">
<li> Hot Drinks.
<ul type = "disc">
<li> Tea </li>
<li> coffee </li>
</ul>
<li>.
<li> cold Drinks.
<ul type = "circle">
<li> juice </li>
<li> cold coffee </li>
</ul>
<li>.
<li> Snacks
<ul type = "square">
<li> Sandwich </li>

```

## Practical : 4.

Aim:- To create a simple HTML webpage that links one web page to another using the  tag.

Code for page 1 (index.html).

```
<html>
<head> <title> Home page </title>
</head>
<body Bgcolor = "yellow">
<h1> welcome to my website </h1>
<p> click the link below to go to the next page : <p>
<a href = "page.2.html" > Go to page 2 </a>
</body>
</html>.
```

Code for page 2 (page.2.html).

```
<html>
<head>
<title> page 2 </title>
</head>
<body Bgcolor = "lightgreen">
<h1> This is page 2 </h1>
<p> You came here from the Home page </p>
<a href = "index.html" > Back to Home </a>
</body>
</html>.
```

## practical No :- 1

Aim:- To write a simple C++ program to Find the maximum of two numbers using the if - ... else Control Structure:-

```
#include <iostream.h>
#include <conio.h>
void main()
{
    int a,b;
    cout << "Enter two number : ";
    cin >> a >> b;
    if (a > b)
        cout << "maximum number is :" << a;
    else
        cout << "maximum number is :" << b;
}
```

## Practical No. 2.

Aim:- Write a C++ program to initialize an array of 5 integers and calculate the sum of element using a pointer.

Code:-

```
#include <iostream.h>
#include <conio.h>
Void main()
{
    clrscr();
    int arr[5] = {10, 20, 30, 40, 50};
    int* ptr;
    int sum = 0, i;
    ptr = arr;
    for (i=0; i<5; i++)
    {
        sum = sum + * (ptr + i);
    }
    cout << "Sum of array elements = " << sum;
    getch();
}
```

## practical NO 3.

Aim:- Write a c++ program to initialize an array of 10 integers and sort the array in ascending or descending order using the Bubble Sort method. Display the original and sorted list.

Code:-

```
#include <iostream.h>
#include <conio.h>
void main()
{
    clrscr();
    int i, j, t, sort[10];
    cout << "enter the array element";
    for (i = 0; i < 10; i++)
    {
        cin >> sort[i];
    }
    for (i = 0; i < 10; i++)
    {
        for (j = 10; j > 0; i--)
        {
            if (sort[j - 1] > sort[j])
            {
                t = sort[j - 1];
                sort[j - 1] = sort[j];
                sort[j] = t;
            }
        }
    }
}
```

{

cout << "Second sorted array is -" << endl;

for (i=0; i<10; i++) .

{

cout << sort[i] << endl;

{

getch();

{.

Practical :- 4.

Aim - Write a C++ program to Verify whether a given element belongs to a sorted array using the binary Search technique.

```
#include <iostream.h>
#include <conio.h>
void main()
{
    clrscr();
    int arr[10] = {5, 10, 15, 20, 25, 30, 35, 40, 45, 50};
    int low = 0, high = 9, mid, num, found = 0;
    cout << "Enter number to Search : ";
    cin >> num;
    while (low <= high)
    {
        mid = (low + high) / 2;
        if (arr[mid] == num)
        {
            found = 1;
            break;
        }
        else if (num < arr[mid])
        {
            high = mid - 1;
        }
        else
        {
        }
    }
}
```

```
low = mid + 1;
```

```
}
```

```
}
```

```
if (found == 1)
```

```
{
```

```
cout << "In the number " << num << " is Found in the  
array";
```

```
}
```

```
else
```

```
{
```

```
cout << "In the number " << num << " is Not Found in  
the array";
```

```
}
```

```
Getch();
```

```
}
```

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## practical NO. 5.

Aim:- Write a c++ program to interchange (swap) two numbers using a function with call by value.

```
#include <iostream.h>
#include <conio.h>
Void Swap (int a , int b)
{
    int temp ;
    temp = a ;
    a = b ;
    b = temp ;
    cout << "\n inside swap function (after swapping) : \n" ;
    cout << " a = " << a << "\n" ;
    cout << " b = " << b << "\n" ;
}

Void main ()
{
    clrscr () ;
    Int num1 , num2 ;
    cout << " Enter first number : " ;
    cin >> num1 ;
    cout << " Enter Second number : " ;
    cin >> num2 ;
    cout << "\n Before calling swap function : \n" ;
    cout << " num1 = " << num1 << "\n" ;
    cout << " num2 = " << num2 << "\n" ;
    swap (num1 , num2 ) ;
    cout << "\n after calling swap function : \n" ;
```

```
cout << "num1 = " << num1 << "\n";  
cout << "num2 = " << num2 << "\n";  
getch();  
}
```

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## Practical no. 6.

Aim:- write a c++ program to interchange two number  
number using a user - defined function void swap().

```
#include <iostream.h>
#include <conio.h>
void main Swap (int &a, int &b)
{
    int temp ;
    temp = a ;
    a = b ;
    b = temp ;
}

void main ()
{
    clrscr () ;
    int num 1 ; num 2 ;
    cout << " Enter first number : " ;
    cin >> num 1 ;
    cout << " Enter second number : " ;
    cin >> num 2 ;
    cout << "\n Before swapping : \n " ;
    cout << " num 1 = " << num 1 << "\n " ;
    cout << " num 2 = " << num 2 << "\n " ;
    swap (num 1, num 2) ;
    cout << "\n after swapping : \n " ;
```

```
cout << "num1 = " << num1 << "\n";  
cout << "num2 = " << num2 << "\n";  
getch();
```

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## Practical No. 7.

Aim:- Write a C++ program to initialize an array of 10 integers and verify whether a given number is present in the array or not using linear search.

```
#include <iostream.h>
#include <conio.h>
Void main ()
{
    clrscr();
    Int arr [10] = { 23, 45, 12, 78, 34, 89, 56, 10, 67, 90 };
    Int num, i, found = 0;
    cout << "Enter a number to search : ";
    cin >> num;
    for (i = 0; i < 10; i++)
    {
        If (arr [i] == num)
        {
            found = 1;
            Break;
        }
    }
    If (found == 1)
    {
        cout << "The number " << num << " is found in the array ";
    }
    Else
    {
    }
```

"cout <<" In the number "<< num <<" is not found  
in the array";

}

getch();

};

~~if~~

## practical no. 8.

Aim: Write a program in c++ to perform function overloading using two class.

Code:-

```
#include <iostream.h>
#include <conio.h>

class first
{
public:
    void show (int a)
    {
        cout << "First class- Number :" << a << "\n";
    }

    void show (int a, int b)
    {
        cout << "First class- sum :" << a+b << "\n";
    }
};

class second
{
public:
    void display (char name [])
    {
        cout << "Second class- Name :" << name << ", Age :"
            << age << "\n";
    }
};
```

```
void main ()
```

{

```
clrscr();
```

```
first f;
```

```
Second s;
```

```
F·show (10);
```

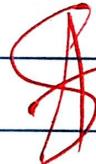
```
F·show (5,15);
```

```
s·display ("John");
```

```
s·display ("John", 18);
```

```
getch ();
```

}



## Practical - 09.

Aim:- write a C++ program to find the sum of first 100 numbers using a control structure.

Code:-

```
#include <iostream.h>
#include <conio.h>
void main()
{
    clrscr();
    int i, sum = 0;
    for (i=1 ; i<=100 ; i++)
    {
        sum = sum + i;
    }
    cout << "The sum of first 100 natural numbers is : "
    << sum;
    getch();
}
```

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practical :- 10.

Aim:- Write a C++ program to convert temperature between Celsius and Fahrenheit.

Code:-

```
#include <iostream.h>
#include <conio.h>
Void main()
{
    clrscr();
    float celsius, fahrenheit;
    int choice;
    cout << "Temperature conversion menu:\n";
    cout << " 1. Celsius to Fahrenheit\n";
    cout << " 2. Fahrenheit to Celsius\n";
    cout << "Enter your choice (1 or 2): ";
    cin >> choice;
    if (choice == 1)
    {
        cout << "Enter temperature in Celsius: ";
        cin >> celsius;
        fahrenheit = (celsius * 9/5) + 32;
        cout << "\nTemperature in Fahrenheit = " << fahrenheit;
    }
    else if (choice == 2)
    {
        cout << "Enter temperature in Fahrenheit: ";
        cin >> fahrenheit;
    }
}
```

```
Celsius = (fahrenheit - 32) * 5/9;  
cout << "In Temperature in Celsius = " << Celsius;  
}  
else  
{  
    cout << "Invalid choice!";  
}  
getch();  
}.
```

~~if~~

practical No : 11.

Aim :- Write C++ program to reverse a string.

Code:-

```
#include <iostream.h>
#include <conio.h>
#include <string.h>
void main()
{
    clrscr();
    char str[100];
    int len, i;
    cout << "Enter a string : ";
    cin >> str;
    len = strlen(str);
    cout << "Reversed String : ";
    for (i = len - 1; i >= 0; i--)
    {
        cout << str[i];
    }
    getch();
}
```

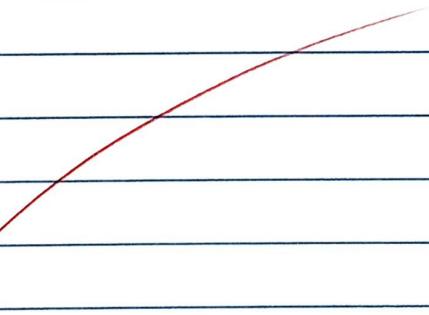
88

## practical No: 12.

Aim:- Write a c++ program to find the GCD of two given numbers.

Code:-

```
#include <iostream.h>
#include <conio.h>
Int find GCD(Int a, int b)
{
    Int temp;
    while (b != 0)
    {
        Temp = b;
        B = a % b;
        A = temp;
    }
    Return a;
}
Void main()
{
    clrscr();
    Int num1, num2, gcd;
    cout << "Enter First number : ";
    cin >> num1;
    cout << "Enter Second number : ";
    cin >> num2;
```



```
GCD = findGCD(num1, num2);  
cout << "The GCD of " << num1 << " and " << num2 << " is : " << gcd;  
getch();  
}
```

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## Practical No: 13

Aim:- Write a program in C++ using OOP to create a class Fib with constructor, destructor, and a member function void genfib().

Print a message when the object is created and when it is destroyed.

Code:-

```
#include <iostream.h>
#include <conio.h>
class Fib {
public:
    Fib() {
        cout << "OBJECT IS BORN\n";
    }
    ~Fib() {
        cout << "OBJECT IS DEAD\n";
    }
    void genfib() {
        int a=0, b=1, c, i;
        cout << "Fibonacci Series (first 10 terms):\n";
        cout << a << " " << b << " ";
        for (i=3; i<=10; i++) {
            c = a+b;
            cout << c << " ";
            a = b;
            b = c;
        }
        cout << "\n";
    }
}
```

```
~fib() {
```

```
    cout << "OBJECTS ARE DESTROYED...\n";
```

```
}
```

```
};
```

```
void main() {
```

```
    clrscr();
```

```
    Fib F;
```

```
    F.genfib();
```

```
    getch();
```

```
}  
CF
```

\* Visual Basic practical - 1 \*

Aim:- Write a program in visual Basic to find sum of any 10 number entered , using do-while loop.

Code :-

```
Dim A As Integer
Dim B As Integers
Dim N As Integers.
```

```
Private Sub cmdCalculate_Click()

```

```
    a = 1

```

```
    b = 0

```

```
    n = Val(Text1.Text)

```

```
    Do While a <= n

```

```
        s = b + a

```

```
        a = a + 1

```

```
    Loop

```

```
    Text2.Text = Str(s)

```

```
End Sub

```

```
Private Sub cmdClear_Click()

```

```
    Text1.Text = ""

```

```
    Text2.Text = ""

```

```
End Sub.

```

\* Visual Basic practical - 2 \*

Aim :- Write a program in visual basic to calculate the area based on selection of given two shapes i.e. circle and rectangle.

Code:-

```
private sub cmd Circle - click ()
    Dim r
    r = Input Box("enter the radius")
    Area = r * r * 3.14
    msg Box("the area of circle is " & Area)
end sub
```

```
private sub cmd Exit - click ()
end
end sub
```

```
private sub cmd Rectangle - click ()
    Dim L, W
    L = Input Box("enter " & L & " the length")
    W = Input Box("enter " & W & " the width")
    Area = L * W
    msg Box("the area of rectangle is " & Area)
end sub
```

\* Visual Basic practical -3 \*

Aim :- Write a program in V-B to calculate the marks of 6 subjects of a student and should include the total, Percentage and should declare whether the student is passing First class, Second class or Third class.

Code :-

Dim a, b, c, d, E, F, g, h As Integers.

Private Sub cmd\_clear\_Click()

Text 1.Text = ''

Text 2.Text = ''

Text 3.Text = ''

Text 4.Text = ''

Text 5.Text = ''

Text 6.Text = ''

Text 7.Text = ''

Text 8.Text = ''

Text 9.Text = ''

End Sub.

Private Sub cmd\_Exit\_Click()

End

End Sub.

Private Sub And Result\_Click()

a = Val(Text1.Text).

b = Val(Text2.Text).

c = Val(Text3.Text)

d = Val(Text4.Text)

e = Val(Text5.Text).

f = Val(Text6.Text).

g = a + b + c + d + e + f.

Text7.Text = g.

b = g \* 100 / 600.

Text8.Text = b.

If b >= 60 Then

Text9.Text = "1<sup>st</sup> class"

Else

If h >= 50 Then

Text10.Text = "2<sup>nd</sup> class"

Else

If h >= 40 Then

Text11.Text = "3<sup>rd</sup> class."

End If

End If

End If.

End Sub.

\* Visual Basic Practical - 4 \*

Aim :- Write a program that add, remove, clear the list of items using list box.

Code :-

```
Private Sub cmd Add_Click()
    1st name . Add item textname . Text
    text name . Text = " "
    text name . Set focus
    total caption = 1st name list count
    cmd add Enabled = false
End Sub.
```

```
private Sub cmd Clear_Click()
    1st name . Clear
    If total caption = 1st name list count
End Sub
```

```
private Sub cmd Exit_Click()
End
So End Sub.
```

*SD*

```
private sub cmd_remove_click()
dim remove as links
remove = 1st name . list index.
if remove > 0 then
    1st name . remove item remove
    listbox . caption = 1st name . list count
end if
end sub.
```

```
private sub text_name_change()
if len(text_name.text) > 0 then
    cmd add. Enabled = true
end if
end sub.
```

~~cmd add. Enabled = true~~

## practical No. 2.

Aim: Create Simple HTML Web page of the following topic  
 Student result. Create a table at center with maximum 5 columns and 8 rows. the page must have an appropriate title. colspan and row span the table must consists of following content. Such as subject name, marks, Total marks, percentage.

```
* Code:
<HTML>
<HEAD>
<TITLE> STUDENT MARKSHEET </TITLE>
</HEAD>
<BODY>
<CENTER><B><U><FONT SIZE="20"> STUDENT MARKSHEET
</FONT><U><B></CENTER>
<BR>
<CENTER><B><U><FONT SIZE="15" COLOR="RED"> DEPARTMENT
  CS <FONT><U><B></CENTER>
<BR>
<CENTER><TABLE BORDER="1"></CENTER>
<TR>
<TH COLSPAN="5" > MARKSHEET <TH>
<TR>
<TH> SUBJECT <TH>
<TH> MAX. MARKS <TH>
<TH> THEORY <TH>
<TH> PRACTICAL <TH>
```

04

```
<TH> MARKS OBTAINED <TH>
<TR>
<TR>
<TH> PHYSICS <TH>
<TD> 100 <TD>
<TD> 50 <TD>
<TD> 40 <TD>
<TD> 90 <TD>
</TR>
<TR>
<TH> CHEMISTRY <TH>
<TD> 100 <TD>
<TD> 50 <TD>
<TD> 40 <TD>
<TD> 90 <TD>
</TR>
<TR>
<TH> ENGLISH <TH>
<TD> 100 <TD>
<TD> 50 <TD>
<TD> 40 <TD>
<TD> 90 <TD>
</TR>
<TR>
<TH> MATHEMATICS <TH>
<TD> 100 <TD>
<TD> 50 <TD>
<TD> 40 <TD>
<TD> 90 <TD>
```

05

```
<TR>
<TR>
<TH> CS <TH>
<TD> 100 <TD>
<TD> 50 <TD>
<TD> 40 <TD>
<TD> 90 <TD>
</TR>
<TR>
<TD> LS2 <TD>
<TD> 100 <TD>
<TD> 50 <TD>
<TD> 40 <TD>
<TD> 90 <TD>
</TR>
<TR>
<TH> TOTAL <TH>
<TD> 600 <TD>
<TD> colspan="3" > <center> 540 </center>
</TD>
<TR>
<TH> Percentage = <TH>
<TD> colspan="4" > 90% <TD>
</TR>
</table>
</Body>
</HTML>
```