Web Development Lab
Practical File

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15ICS076

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Table Of 5

No.	*	i	=	Output
5	*	1	=	5
5	*	2	=	10
5	*	3	=	15
5	*	4	=	20
5	*	5	=	25
5	*	6	=	30
5	*	7	=	35
5	*	8	=	40
5	*	9	=	45
5	*	10	=	50

Sum = 275

Code

```
int sum = 0;
for (int i=1; i<=10 ; i++ ) {
        out.println("<tr><td>5</td><td> * </td><td>"+i+"</td><td> = </td><td>"
                sum += 5*i;
}
out.println("Sum = "+sum);
```

Power function

2 to the power 3 = 8

Code

```
int base = 2 , power = 3;
int ans = 1;

while (power>=1) {
        ans *= base;
        power--;
}
out.println("2 to the power 3 = "+ans);
```

Fibonacci Series

0
1
1
2
3
5
8
13
21
34
55
89

Code

```
int a = 0,b=1,c;
out.println("<br>");
out.println("1<br>");
for (int i=0; i<10 ;i++ ) {
        out.println(a+b+"<br>");
        c=a;
        a=b;
        b=a+c;
}
```

Factorial

Factorial Of 5 is = 120

Code

```
int input = 5;
int output = 1;
while (input>=1) {
        output *= input;
        input--;
}
out.println("Factorial Of 5 is = "+output);
```

Reverse of a number

Reverse of 12345 = 54321

Code

```
int num = 12345;
int rev = 0;
for (int i=0; i<5 ;i++ ) {
        rev*=10;
        rev+=(num%10);
        num/=10;
}
out.println("Reverse of 12345 = "+rev);
```

Armstrong Number

371 is a armstrong no.

Code

```
int num = 371,num1 = 371,result=0,x;
for (int i=1; i<=3 ; i++) {
        x=num%10;
        result+=(x*x*x);
        num/=10;
}
if (result == num1) {
        out.println("371 is a armstrong no.");
}
```

Registration Form

Name

Father's Name

Mother's Name

Branch

Roll No.

Mobile No.

Email Address

Gender

Select

Current Address

Permanent Address

Submit

Bubble Sort

Unsorted array is = [2 5 7 8 4 9 1 3 6]

After Bubble Sort

Sorted array is = [1 2 3 4 5 6 7 8 9]

Code

```
<%
        int[] arr = {2,5,7,8,4,9,1,3,6};
        out.println("Unsorted array is = [");
        for (int i=0; i<arr.length;i++ ) {
                out.println(" "+arr[i]);
        }
        out.println("]");
        for (int i=0; i<arr.length-1;i++ ) {
                for (int j=0; j<arr.length-1;j++){
                        if(arr[j]>arr[j+1]) {
                                int temp;
                                temp=arr[j];
                                arr[j]=arr[j+1];
                                arr[j+1] =temp;
                        }
                }
        }
        out.println("<br>After Bubble Sort <br>Sorted array is = [");
        for (int i=0; i<arr.length;i++ ) {
                out.println(" "+arr[i]);
        }
        out.println("]");
%>
```

Selection Sort

Unsorted array is = [2 5 7 8 4 9 1 3 6]
After Selection Sort
Sorted array is = [1 2 3 4 5 6 7 8 9]

Code

```
<%
        int[] arr = {2,5,7,8,4,9,1,3,6};
        out.println("Unsorted array is = [");
        for (int i=0; i<arr.length;i++ ) {
                out.println(" "+arr[i]);
        }
        out.println("]");
        for (int i=0; i<arr.length; i++ ) {
                int min = arr[i]; int po = i;
                for(int j=i+1; j<arr.length; j++){
                        if(min>arr[j]){
                                min=arr[j];
                                po=j;
                        }
                }
                int temp = arr[po];
                arr[po]=arr[i];
                arr[i]=temp;
        }
        out.println("<br>After Selection Sort <br>Sorted array is = [");
        for (int i=0; i<arr.length;i++ ) {
                out.println(" "+arr[i]);
        }
        out.println("]");
%>
```

Insertion Sort

Unsorted array is = [2 5 7 8 4 9 1 3 6]
After Insertion Sort
Sorted array is = [1 2 3 4 5 6 7 8 9]

Code

```
<%
        int[] arr = {2,5,7,8,4,9,1,3,6};
        out.println("Unsorted array is = [");
        for (int i=0; i<arr.length;i++ ) {
                out.println(" "+arr[i]);
        }
        out.println("]");
        int po,val;
        for (int i=1;i<arr.length;i++) {
                val=arr[i];
                po=i;
                while(po>0 && arr[po-1]>val){
                        arr[po]=arr[po-1];
                        po--;
                }
                arr[po]=val;
        }
        out.println("<br>After Insertion Sort <br>Sorted array is = [");
        for (int i=0; i<arr.length;i++ ) {
                out.println(" "+arr[i]);
        }
        out.println("]");
%>
```