

25/09/2023.  
8:10 AM  
Monday.

## C++ Programming.

1. Write a Program for student which Grade

```
#include <stdio.h>
int main()
{
    int a, b, Name, n
    Printf ("Enter the student name");
    scanf ("%s", &Name);
    int
    for (i=0; i<n; i++)
    Printf ("Enter the Subject No.")
    scanf ("%d", &n);
    int (sub[n]);
    for (i=0; i<n; i++)
    {
        Printf ("Enter the subject");
        scanf ("%s", &sub[i]);
        Printf ("Enter the mark");
        scanf ("%d", &sub[i]);
    }
    for (i=0; i<n; i++)
    {
        sum += sub[i];
    }
```

```
if (sum > 80);  
{ printf("Honouring"); }
```

```
if else (sum < 80 && sum > 70);  
{ printf("First class"); }
```

```
if else (sum < 60 && sum > 50);  
{ printf("Second class"); }
```

```
else  
{ printf("Fail"); }
```

```
return 0;
```

```
}
```

25/9/2023  
8.30

## C statement / Syntax.

1. input - scanf  
output - printf.

Eg:-  
input :-  
scanf ("%d", &n);  
output :-  
printf ("The Student  
marks are");

## Statements.

1. if (selection)  
if (N%2 == 0)  
{ printf ("even"); }

2. else  
else  
{ printf ("odd"); }

3. loop :- (iterative)  
i) for  
ii) while  
iii) do-while.

C++

## Statement / Syntax.

2. input - cin  
output - cout.

Eg:-  
input :-  
cin >> Number;

output :-  
cout << "Total  
Number";

## Statements.

1. if  
if (N%2 == 0)  
{ cout << "even"; }

2. else  
else  
{ cout << "odd"; },

3. loop :-

i) for  
ii) while  
iii) do-while.



Ex:-

for:-

```
int i = 0;
```

```
for (i = 1; i < 10; i++) {  
    printf("%d", i);  
}
```

while .

```
while (i < 10) {
```

```
    printf("%d", i);  
    i++;  
}
```

Jump Statement .

i) continue

ii) break

iii) return.

Ex:-

i) continue

```
for (i = 1; i < 10; i++) {  
    printf("%d", i);  
    continue;  
}
```

ii) Break :-

```
while (i < 10) {  
    printf("%d", i);  
    break;  
}
```

iii) return :-

```
if (i < n)  
{ return 0; }
```

Ex:-

for:-

```
int i = 0;
```

```
for (i = 0; i < 10; i++) {  
    cout << i; }  
}
```

while

```
while (i < 10) {
```

```
    cout << i; }  
}
```

Jump Statement.

i) continue

ii) break

iii) return.

i) continue .

```
for (i = 1; i < 10; i++) {  
    cout << i;  
    cout << i;  
    continue;  
}
```

ii) Break:-

```
while (i < 10) {  
    cout << i;  
    break; }  
}
```

iii) return

```
if (i < n)  
{ return 0; }
```

## 5. Keywords :-

i. Break      iv) char  
ii. in          v) Static  
iii. Const     vi) double  
                 else

## 5 Keywords :-

i) asm          iv) Union,  
ii) goto        v) void  
iii) delete     vi) struct

## 6. Switch :-

Switch (var)

Ex:-

```
Switch (var) {  
    case 1;  
        printf ("Case 1");  
    case 2;  
        printf ("Case 2 matched");  
}
```

## 6. Switch :-

Switch (var)

Ex:-

```
Switch (var) {  
    case 1;  
        printf ("Case 1 matched");  
    case 2;  
        printf ("Case 2 matched");  
}
```



1. Adding Two Number.
2. Swap two Number.
3. To find the largest no. amongst three number.
4. Find the sum of all natural no from n.
5. Find even or odd.

```

cout << A << B;
return 0;

```

```

1. #include <iostream>
using namespace std;
int main() {
    cout << "Enter the
        number a";
    cin >> a;
    cout << "Enter the
        Number b";
    cin >> b;
    cout << a+b;
    return 0;
}

```

```

3. #include <iostream>
using namespace std;
int main() {
    int a, b, c;
    cout << "Enter the
        Number a";
    cin >> a;
    cout << "Enter the
        Number b";
    cin >> b;
    cout << "Enter the
        Number c";
    cin >> c;

```

```

2. #include <iostream>
using namespace std;
int main() {
    int A = 10;
    int B = 15;

```

```

    temp = A;
    A = B;
    B = temp;

```

```

    if (a >= b && a >= c)
    { cout << "a is Greater" }
    else if (b >= a && b >= c)
    { cout << "b is Greater" }
    else
    { cout << "c is Greater" }

```

Afternoon - 12.20

```
#include <iostream>
using namespace std;
int main() {
    int a, b, c, s = 0, i;
    cout << "Enter n number";
    cin << a;
    for (i = 0; i < a; i++)
    {
        cout << i;
        s += i;
    }
    cout << s;
    return 0;
}
```

```
5. #include <iostream>
using namespace std;
int main() {
    int a, b, c;
    cout << "Enter the
    number of a";
    cin << a;
    if (a % 2 == 0)
    {
        cout << "even";
    }
    else {
        cout << "odd";
    }
    return 0;
}
```

6. Display fibonacci series.
7. Reverse a Number.
8. Check prime or not.
9. multiply two number.
10. find factorial/Given No.
11. function to find a length of a string in C++.
- 12.

1. Reverse a number

```
<iostream>
using namespace std;
```

```
{
    int n;
    cin >> n;
```

```
}
return 0;
```

```
int main() {
    int n;
    cin >> n;
```

```
return 0;
```

```
}
```



6. fibonacci series :-

8. Prime or not.

```
#include <iostream>
using namespace std;

int main() {
    int w1, w2, w3, m;
    cout << w1;
    w3 = w1 + w2;
    w1 = w2;
    w2 = w3;
    m--;
    return 0;
}
```

7. Reverse a Number :-

```
#include <iostream>
using namespace std;

int main() {
    int m, n, i, temp, rem, sum;
    int rem = 0;
    while (n != 0) {
        rem = m % 10;
        sum = sum * 10 + rem;
        m /= 10;
    }
    cout << sum;
    return 0;
}
```

```
void Prime(n) {
    int i, m, n, flag = 0;
    m = n / 2;
    for (i = 2; i <= m; i++)
        if (n % i == 0)
            flag = 1;
    if (flag == 0)
        cout << "Number is not a prime";
    else
        break;
}
```

Number is not a prime.

```
flag = 1;
break;
}

if (flag == 0)
    cout << "No. is prime";
}
```

```
int main() {
    int n;
    cout << "Enter n";
    cin >> n;
    Prime(n);
    return 0;
}
```



9. multiply two No: -

```
#include <iostream>
using namespace std;
int main() {
    int i, m, n;
    cout << "Enter m";
    cin >> m;
    cout << "Enter n";
    cin >> n;
    cout << m * n;
    return 0;
}
```

10. factorial,

```
#include <iostream>
int fact(int n)
for (i = 1; i <= n; i++)
{
    * = i;
}
return *;
}
```

```
int main()
{
    cout << "Enter n";
    cin >> n;
    * = fact(n);
    cout << *;
}
```

11. length of a string.

```
#include <iostream>
using namespace std;
int main() {
    int i, m, n;
    cout << "Enter a string";
    string s;
    while (s.length() > 0)
    {
        return 0;
    }
}
```

C++

Online Compiler.

26/09/2023

Tuesday.

(8.50)

① Average of three Number.  $\rightarrow (8.55)$

Input :- 2, 18, 6

Output :- 8

② +, -, \*, / operation.  $\rightarrow (9.10)$

Input :- a = 5 ; b = 5

Output :-

Add = 10      Sub = 0

mul = 25      Div = 1

③ Compare two No.  $\rightarrow (9.25)$   
equal / Not.

Input :- a = 2 b = 2

Output :- equal.

④ Even / odd  $\rightarrow (9.30)$

Input :- a = 6

Output = Even.

5. Floating.  $\rightarrow (9.45)$

Operation, +, -, \*, /

Input :- a = 88.8 b = 11.2

Output :-

Add = 100      Sub = 77.6

mul = 994.56      Div = 7.92

6. vowels / Consonants.

inputs :- p

Output :- It is a  
consonants.

7. Pos - Neg :-

Input :- a = -7

Output :- Negative.

8. Which is Greater:

Input :- a = 2 b = 3

Output :- b is Greater.