SKILLS

C++
Loops

Lecture- 5

COLLEGE WALLAH

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What and Why?

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For Loop

```
for(int i = 1; i<=10; i++){

    // code

}
```

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Ques : Print hello world ‘n’ times. Take ‘n’ as input from user

How for loop works : the various parameters.

Ques : Print numbers from 1 to 100

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Ques : Print all the even numbers from 1 to 100

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Ques : Print the table of 19.

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Ques : Display this AP – 1,3,5,7,9.. upto ‘n’ terms.

Ques : Display this GP – 1,2,4,8,16,32,.. upto ‘n’ terms.

Ques : Display this AP - 100,97,94,..upto all terms which are positive.

While Loop

```
int i = 0;
while(i<10){
    // code
    i++;

}
```

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Predict the output

```
int main( ) {
    int j ;
    while ( j <= 10 ) {
        cout << j << endl;
        j = j + 1 ;
    }
}
```

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Predict the output

```
int main( ) {
    int i = 1 ;
    while ( i <= 10 ) ;
    {
        cout << i << endl;
        i++ ;
    }
}
```

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Predict the output

```
int main( ) {
    int j ;
    while ( j <= 10 )
    {
        cout << j << endl ;
        j = j + 1 ;
    }
}
```

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Predict the output

```
int main( ) {
    int x = 1 ;
    while ( x == 1 ) {
        x = x - 1 ;
        cout << x << endl;
    }
}
```

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Do- While Loop

```
do {

    //code

} while ( another == 'y' ) ;
```

Predict the output

```
int main( ) {
    int x = 1 ;
    while ( x == 1 )
        x = x - 1 ;
        cout << x << endl;
}
```

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Find the error

```
int main() {
    int x;
    while (x = 0; x <= 255; x++) {
        cout << "Ascii value of Character "  <<  (char)('a' + x) ;
        cout << " is " << x << endl;
    }
}
```

Predict the output

```
int main() {
    int x;
    for (x = 0; x <= 255; x++) {
        cout << "Ascii value of Character " << (char)('a' + x) ;
        cout << " is " << x << endl;
    }
}
```

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Thank you!

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