

# Interview Programs1

**1.This program accept a number and print weather its prime or not**

```
import java.util.Scanner;
class Test1 {
    public static void main(String args[]){
        int flag = 0;
        Scanner a = new Scanner(System.in);
        System.out.println("Enter any number:");
        int num = a.nextInt();
        for(int i=2; i<=num-1; i++){
            if(num%i==0)
                flag = 1;
            break ;
        }
        if(flag==0)
            System.out.println("its a prime number:");
        if(flag==1)
            System.out.println("its not prime number:");
        }
}
```

**2.Program To Find Greatest Among Three Numbers.**

```
#include<iostream>
using namespace std;
int main(){

    int a , b , c ;
    cout << "Enter three number :";
    cin >> a >> b >> c ;
```

```

    if((a>b) && (a>c))
    cout << "Greatest number is :" << a;
    if((b>a) && (b>c))
    cout << "Greatest number is :" << b;
    if((c>a) && (c>b))
    cout << "Greatest number is :" << c;
    return 0;
}

```

### **3.Program To Swap Two Numbers Using Temporary Variables.**

```

#include<stdio.h>
int main(){

    int x , y , z ;
    printf("Enter the value of x and y :");
    scanf("%d %d", &x , &y);
    z = x ;
    x = y ;
    y = z ;
    printf("value of x = %d\n", x);
    printf("value of y = %d\n", y);
    return 0;
}

```

### **4.Program To Swap Two Numbers without Using Temporary Variables.**

```

#include<stdio.h>
int main(){

    int a , b ;
    printf("Enter the value of a and b :");

```

```

scanf("%d %d", &a , &b);
b = a + b ;
a = b - a ;
b = b - a ;
printf("value of a = %d\n", a);
printf("value of b = %d\n", b);
return 0;
}

```

### **5.This program print fibonicc series**

```

import java.util.Scanner;
class Test5 {
    public static void main(String args[]){
        int n,i,a=0,b=1,c=0;
        Scanner d = new Scanner(System.in);
        System.out.println("Enter number of elements:");
        n = d.nextInt();
        for(i=1; i<=n; i++){
            System.out.println(c);
            a = b ;
            b = c ;
            c = a+b;
        }
    }
}

```

### **6.Program to add two numbers in C++ using classes.**

```

#include<iostream>
using namespace std;
class Add {

    int a , b , c ;
    public :

```

```

    void getData();
    void showData();
    void Calculate();
};
void Add :: getData(){
    cout <<"Enter any two number : ";
    cin >> a >> b ;
}
void Add :: Calculate(){
    c = a + b ;
}
void Add :: showData(){
    cout <<" Addition is : "<< c ;
}
int main(){

    Add d ;
    d.getData();
    d.Calculate();
    d.showData();
    return 0;
}

```

## **7.Program to find factorial of a number**

```

import java.util.Scanner;
class Test7 {

    public static void main(String args[]){
        int fact = 1 ;
        Scanner a = new Scanner(System.in);
        System.out.println("Enter Number : ");
        int n = a.nextInt();
        for(int i = n; i >= 1 ; i--){

```

```

        fact = fact*i;
    }
    System.out.println("Factorial of " +n+ " is :" +fact );
}
}

```

## 8.Program to check whether a number is even or odd

```

#include<stdio.h>
int main(){

    int a ;
    printf("Enter Number :");
    scanf("%d", &a);
    if(a%2 == 0)
        printf("Even Number\n");
    else
        printf("Odd Number\n");
    return 0;
}

```

## 9.Program to find sum of first n natural numbers

```

#include<iostream>
using namespace std ;
int main(){

    int n , sum = 0 ;
    cout << "How many numbers :";
    cin >> n ;
    for(int i = 1; i <= n; i++){
        sum = sum + i;
    }
    cout << "Sum :" << sum << "\n";
    return 0;
}

```

```
}
```

## **10. Calculate factorial of a number using Recursion**

```
#include<stdio.h>
int Fact(int x);
int main() {

    int a , d ;
    printf("Enter Number :");
    scanf("%d",&a);
    d = Fact(a);
    printf("Factorial of Number is : %d\n", d);
    return 0;
}
int Fact(int x){

    int f ;
    if(x == 1)
        return (1);
    else
        f = x*Fact(x-1);

    return (f);
}
```

## **11. Program to reverse a given number**

```
import java.util.Scanner;
class Test12 {
    public static void main(String args[]){
        int temp , reverseNumber = 0;
        Scanner a = new Scanner(System.in);
        System.out.println("Enter the number which you want to
reverse");
```

```

int number = a.nextInt();
while(number > 0){
temp = number % 10;
number = number / 10;
reverseNumber = reverseNumber * 10 + temp;
}
System.out.println("Reverse of Number is "+reverseNumber);
}
/*

```

temp = 2345 % 10 = 5

number = 2345 / 10 = 234

temp	number	reversedNumber
------	--------	----------------

5	234	$0 \times 10 + 5 = 5$
---	-----	-----------------------

4	23	$5 \times 10 + 4 = 54$
---	----	------------------------

3	2	$54 \times 10 + 3 = 543$
---	---	--------------------------

2	0	$543 \times 10 + 2 = 5432$
---	---	----------------------------

\*/

## 12. Program to add two number using pointers

```
#include<stdio.h>
```

```
int main(){
```

```

    int first , second , *p1 , *p2 , sum ;
    printf("Enter two numbers :");

```

```

scanf("%d %d",&first , &second);
p1 = &first ;
p2 = &second ;
sum = *p1 + *p2 ;
printf("Sum = %d\n", sum);
return 0;
}

```

### **13.Program to find whether a string is palindrome or not.**

```

import java.util.Scanner ;
class Test14 {

    public static void main(String args[]){
        String original, reverse="";
        Scanner a = new Scanner(System.in);
        System.out.println("Enter a string :");
        original = a.nextLine();
        int length = original.length();
        for (int i = length-1; i >= 0; i--)
            reverse = reverse + original.charAt(i);

        if (original.equals(reverse))
            System.out.println("Entered string is a palindrome.");
        else
            System.out.println("Entered string is not a palindrome.");
    }
}

```

### **14.Program to print 1 to 100 numbers without using for , while and do-while loop**

```

#include<stdio.h>
void inputNumber(int i);
int main(){

```



```
    inputNumber(1);

    return 0;
}
void inputNumber(int i){
    printf("%d\n",i);
    if(i < 100)
        inputNumber(i+1);
}
```

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