

STD: XI

COMPUTER SCIENCEPROGRAM – 1

Gross Salary:

```

1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5  float basic, gross, da,hra;
6  cout<<"Enter basic salary of an employee: ";
7  cin>>basic;
8  if (basic <25000)
9  {
10 da = basic *80/100;
11 hra= basic *20/100;
12 }
13 else if (basic >=25000 && basic<40000)
14 {
15 da = basic *90/100;
16 hra= basic *25/100;
17 }
18 else if (basic>=40000)
19 {
20 da = basic *95/100;
21 hra= basic *30/100;
22 }
23 gross= basic +hra+ da;
24 cout<< "\n\t Basic Pay ....."<< basic<<endl;
25 cout<< "\t Dearness Allowance ....." << da <<endl;
26 cout<< "\t House Rent Allowance....."<< hra <<endl;
27 cout<< "\t -----" <<endl;
28 cout<< "\t Gross Salary....."<<gross <<endl;
29 cout<< "\t -----" <<endl;
30 return 0;
31 }

```

```

C:\Users\Yousuf\Desktop\C++ PROGRAMS\PRC
Enter basic salary of an employee: 25000

Basic Pay .....25000
Dearness Allowance .....22500
House Rent Allowance.....6250
-----
Gross Salary.....53750
-----

```

**PROGRAM – 2**

Percentage:

```
1  #include<iostream>
2  using namespace std;
3  int main()
4  {
5  float percent;
6  int x;
7  cout<<"Enter your percentage:";
8  cin>>percent;
9  cout<<"You Scored"<<percent<<"%"<<endl;
10 x=percent/10;
11 switch(x)
12 {
13 case 10:
14 case 9:
15 case 8:
16 cout<<"You have passed with Distinction";
17 break;
18 case 7:
19 case 6:
20 cout<<"You have passed with First Division";
21 break;
22 case 5:
23 cout<<"You have passed with Second Division";
24 break;
25 case 4:
26 cout<<"You have passed with Third Division";
27 break;
28 default:
29 cout<<"Sorry: You have failed";
30 }
31 return 0;
32 }
```

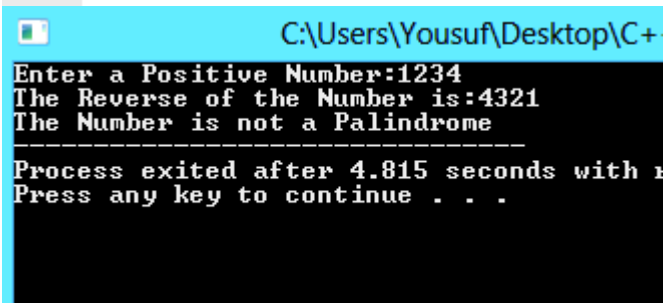
```
C:\Users\Yousuf\Desktop\C
Enter your percentage:79
You Scored79%
You have passed with First Division
```

```
Enter your percentage:39
You Scored39%
Sorry: You have failed
```

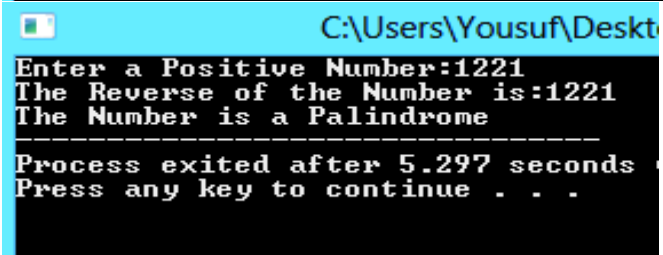
**PROGRAM – 3**

Palindrome:

```
1  #include<iostream>
2  using namespace std;
3  int main()
4  {
5  int n,num,digit,rev=0;
6  cout<<"Enter a Positive Number:";
7  cin>>num;
8  n=num;
9  while(num)
10 {
11 digit=num%10;
12 rev=(rev*10)+digit;
13 num=num/10;
14 }
15 cout<<"The Reverse of the Number is:"<<rev<<endl;
16 if (n == rev)
17 cout<<"The Number is a Palindrome";
18 else
19 cout<<"The Number is not a Palindrome";
20 return 0;
21 }
22
```



```
C:\Users\Yousuf\Desktop\C+
Enter a Positive Number:1234
The Reverse of the Number is:4321
The Number is not a Palindrome
-----
Process exited after 4.815 seconds with
Press any key to continue . . .
```



```
C:\Users\Yousuf\Deskt
Enter a Positive Number:1221
The Reverse of the Number is:1221
The Number is a Palindrome
-----
Process exited after 5.297 seconds
Press any key to continue . . .
```

**PROGRAM – 4**

Number Conversion:

```

1  #include <iostream>
2  #include <cmath>
3  using namespace std;
4  int main()
5  {
6  int dec,d,i,temp,ch;
7  long int bin;
8  do
9  {
10 dec=bin=d=i=0;
11 cout<<"\n\n\t\tMENU\n1. Decimal to Binary number\n2.Binary to Decimal number\n3.Exit\n";
12 cout <<"Enter your choice(1/2/3)";
13 cin>>ch;
14 switch (ch)
15 {
16 case 1: cout << "Enter a decimal number: ";
17 cin >> dec;
18 temp=dec;
19 while (dec!=0)
20 {
21 d = dec%2;
22 bin += d * pow(10,i);
23 dec /= 2;
24 i++;
25 }
26 cout << temp << " in decimal = " << bin << " in binary" << endl ;
27 break;
28 case 2: cout << "Enter a binary number: ";
29 cin >> bin;
30 temp=bin;
31 while (bin!=0)
32 {
33 d = bin%10;
34 dec += d*pow(2,i);
35 bin /= 10;
36 i++;
37 }
38 cout << temp << " in binary = " <<dec << " in decimal";
39 break;
40 case 3:
41 break;
42 default:cout<<"Invalid choice";
43 }
44 }
45 while (ch!=3);
46 return 0;
47 }

```

```

C:\Users\Yousuf\
MENU
1. Decimal to Binary number
2.Binary to Decimal number
3.Exit
Enter your choice(1/2/3)1
Enter a decimal number: 23
23 in decimal = 10111 in binary

MENU
1. Decimal to Binary number
2.Binary to Decimal number
3.Exit
Enter your choice(1/2/3)2
Enter a binary number: 11001
11001 in binary = 25 in decimal

MENU
1. Decimal to Binary number
2.Binary to Decimal number
3.Exit
Enter your choice(1/2/3)3

MENU
1. Decimal to Binary number
2.Binary to Decimal number
3.Exit
Enter your choice(1/2/3)4
Invalid choice

MENU
1. Decimal to Binary number
2.Binary to Decimal number
3.Exit
Enter your choice(1/2/3)3

```

**PROGRAM – 5**

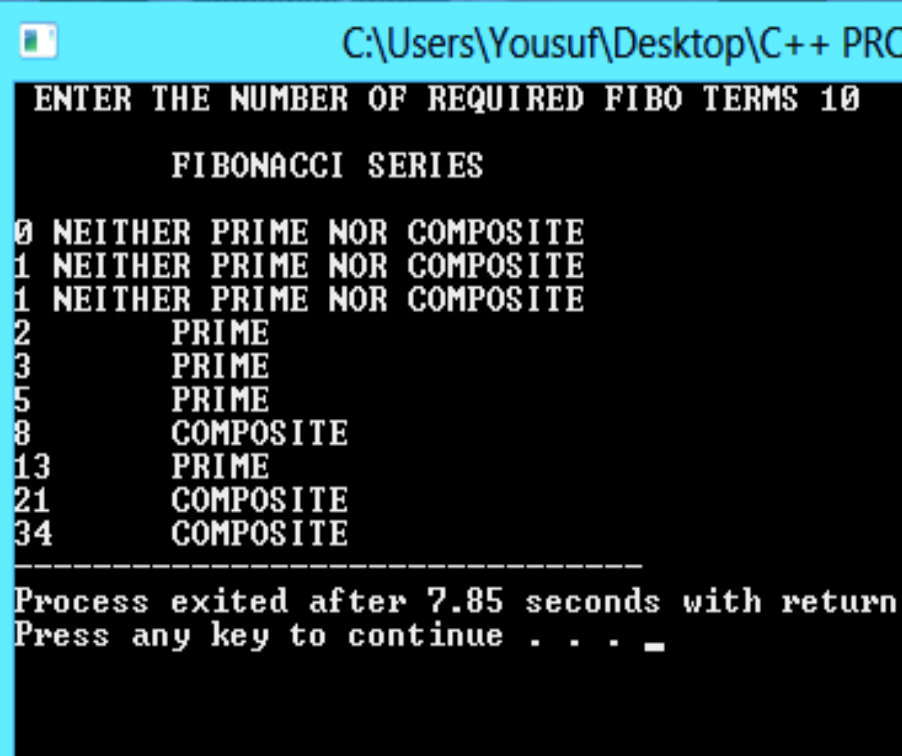
Fibonacci Prime Series

```

1  #include <iostream>
2  #include <stdlib.h>
3  using namespace std;
4  void Primechk (int a)
5  {
6  int j;
7  if ( a == 0 || a == 1 )
8  {
9  cout<< " NEITHER PRIME NOR COMPOSITE ";
10 }
11 else
12 {
13 for (j = 2 ; j<a; j++)
14 {
15 if (a%j==0)
16 {
17 cout<< "\tCOMPOSITE" ;
18 break ;
19 }
20 }
21 if ( a==j )
22 cout<< "\tPRIME" ;
23 }
24 }
25 void fibo ( int n )
26 {
27 int a = -1 , b = 1 ,c=0 ;
28 for ( int i = 1 ; i <= n ; i++)
29 {
30 cout<<endl; c = a + b ;
31 cout<<c;
32 Primechk(c);
33 a = b;
34 b = c ;
35 }
36 }

```

```
37     int main ()
38     {
39         int n ;
40         cout << " ENTER THE NUMBER OF REQUIRED FIBO TERMS " ;
41         cin >> n ;
42         cout<< "\n\tFIBONACCI SERIES\n " ;
43         fibo (n) ;
44         return 0;
45     }
```



C:\Users\Yousuf\Desktop\C++ PRO

```
ENTER THE NUMBER OF REQUIRED FIBO TERMS 10

FIBONACCI SERIES

0 NEITHER PRIME NOR COMPOSITE
1 NEITHER PRIME NOR COMPOSITE
1 NEITHER PRIME NOR COMPOSITE
2 PRIME
3 PRIME
5 PRIME
8 COMPOSITE
13 PRIME
21 COMPOSITE
34 COMPOSITE

-----
Process exited after 7.85 seconds with return
Press any key to continue . . . _
```