Assignment-Solution Week-01

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Day 1/180 Introduction To Programming (Home work)

- **Convert Decimal to Binary**

    1. 37

Base	Quotient	Rem
2	37	1
2	18	0
2	9	1
2	4	0
2	2	0
2	1	1
2	0	

        Ans = 100101

    2. 92

Base	Quotient	Rem
2	92	0
2	46	0
2	23	1
2	11	1
2	5	1
2	2	0
2	1	1
2	0	

        Ans = 1011100

    3. 128

Base	Quotient	Rem
2	128	0
2	64	0
2	32	0
2	16	0
2	8	0
2	4	0
2	2	0
2	1	1
2	0	

        Ans = 10000000

4. 243

Base	Quotient	Rem
2	243	1
2	121	1
2	60	0
2	30	0
2	15	1
2	7	1
2	3	1
2	1	1
2	0

Ans = 11110011

- ## Convert Binary to Decimal

5. 1011

⇨ 1*2^3 + 0*2^2 + 1*2^1 + 1*2^0
⇨ 8 + 0 + 2 + 1
⇨ **11**

6. 111001

⇨ 1*2^5 + 1*2^4 + 1*2^3 + 0*2^2 + 0*2^1 + 1*2^0
⇨ 32 + 16 + 8 + 0 + 0 + 1
⇨ **57**

7. 10011011

⇨ 1*2^7 + 0*2^6 + 0*2^5 + 1*2^4 + 1*2^3 + 0*2^2 + 1*2^1 + 1*2^0
⇨ 128 + 0 + 0 + 16 + 8 + 0 + 2 + 1
⇨ **155**

8. 10100100

⇨ 1*2^7 + 0*2^6 + 1*2^5 + 0*2^4 + 0*2^3 + 1*2^2 + 0*2^1 + 0*2^0
⇨ 128 + 0 + 32 + 0 + 0 + 4 + 0 + 0
⇨ **164**

- ## Convert Decimal to Octal

9. 28

Base	Quotient	Rem
8	28	4
8	3	3
8	0

Answer:- 34

10. 47

Base	Quotient	Rem
8	47	7
8	5	5
8	0	

Answer:- 57

11. 928

Base	Quotient	Rem
8	928	0
8	116	4
8	14	6
8	1	1
8	0	

Answer:- 1640

12. 1243

Base	Quotient	Rem
8	1243	3
8	155	3
8	19	3
8	2	2
8	0	

Answer:- 2333

● Convert Octal to Decimal

13. 41

⇨ $4*8^1 + 1*8^0$

⇨ $32 + 1$

⇨ **33**

14. 207

⇨ $2*8^2 + 0*8^1 + 7*8^0$

⇨ $128 + 0 + 7$

⇨ **135**

15. 124

⇨ $1*8^2 + 2*8^1 + 4*8^0$

⇨ $64 + 16 + 4$

⇨ **84**

16. 311

⇨ $3*8^2 + 1*8^1 + 1*8^0$

⇨ $192 + 8 + 1$

⇨ **201**

- **Convert Decimal to HexaDecimal**

    17. 317

Base	Quotient	Rem
16	317	13=D
16	19	3
16	1	1
16	0	

    Answer:- 13D

    18. 41

Base	Quotient	Rem
16	41	9
16	2	2
16	0	

    Answer:- 29

    19. 14

Base	Quotient	Rem
16	14	E
16	0	

    Answer:- E

    20. 845

Base	Quotient	Rem
16	845	13=D
16	52	4
16	3	3
16	0	

    Answer:- 34D

- **Convert HexaDecimal to Decimal**

    21. A11

    $\Rightarrow$ $10*16^2 + 1*16^1 + 1*16^0$

    $\Rightarrow$ 2560 + 16 + 1

    $\Rightarrow$ **2577**

    22. 49

    $\Rightarrow$ $4*16^1 + 9*16^0$

    $\Rightarrow$ 64 + 9

    $\Rightarrow$ **73**

    23. AE2F

    $\Rightarrow$ $10*16^3 + 14*16^2 + 2*16^1 + 15*16^0$

    $\Rightarrow$ 40960 + 3584 + 32 + 15

    $\Rightarrow$ **44591**

24. D97

⇨ 13*16^2 + 9*16^1 + 7*16^0

⇨ 3328 + 144 + 7

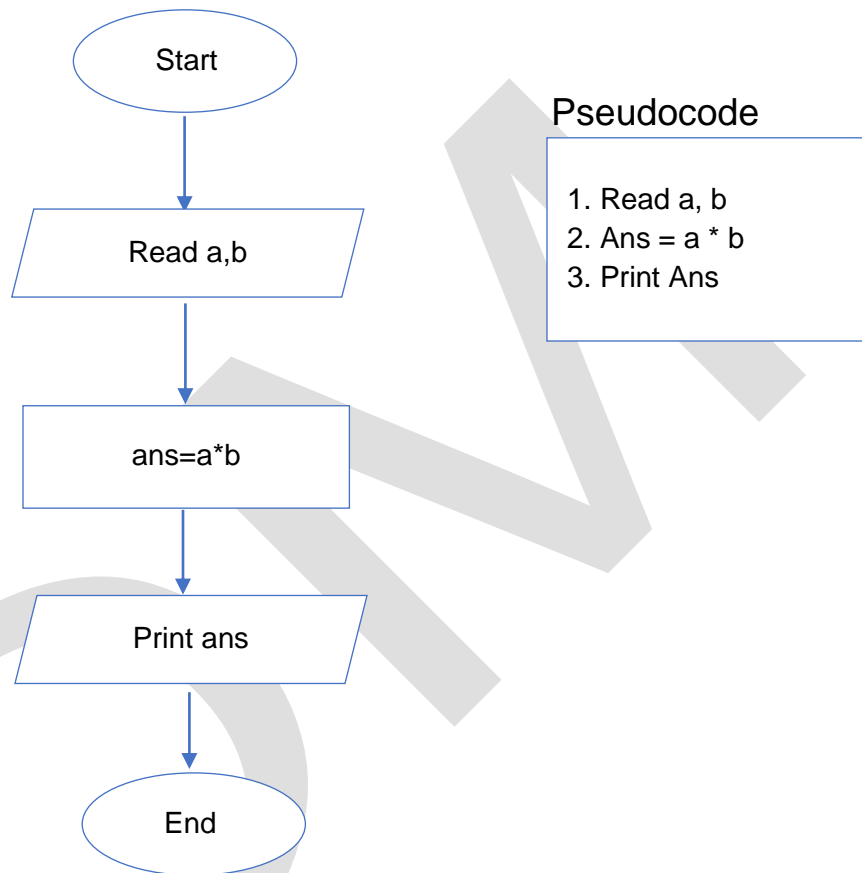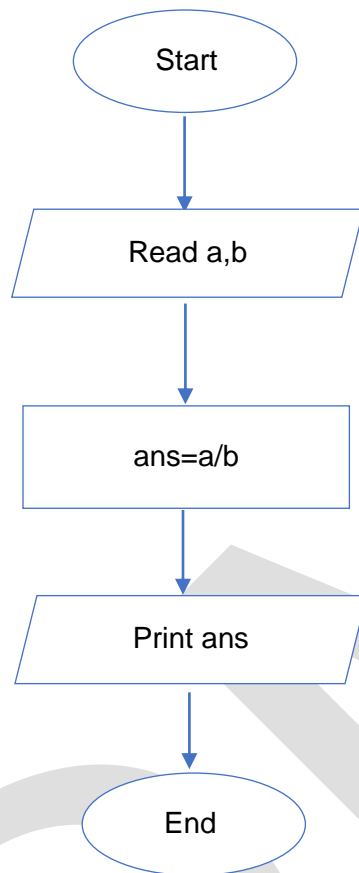⇨ **3479**
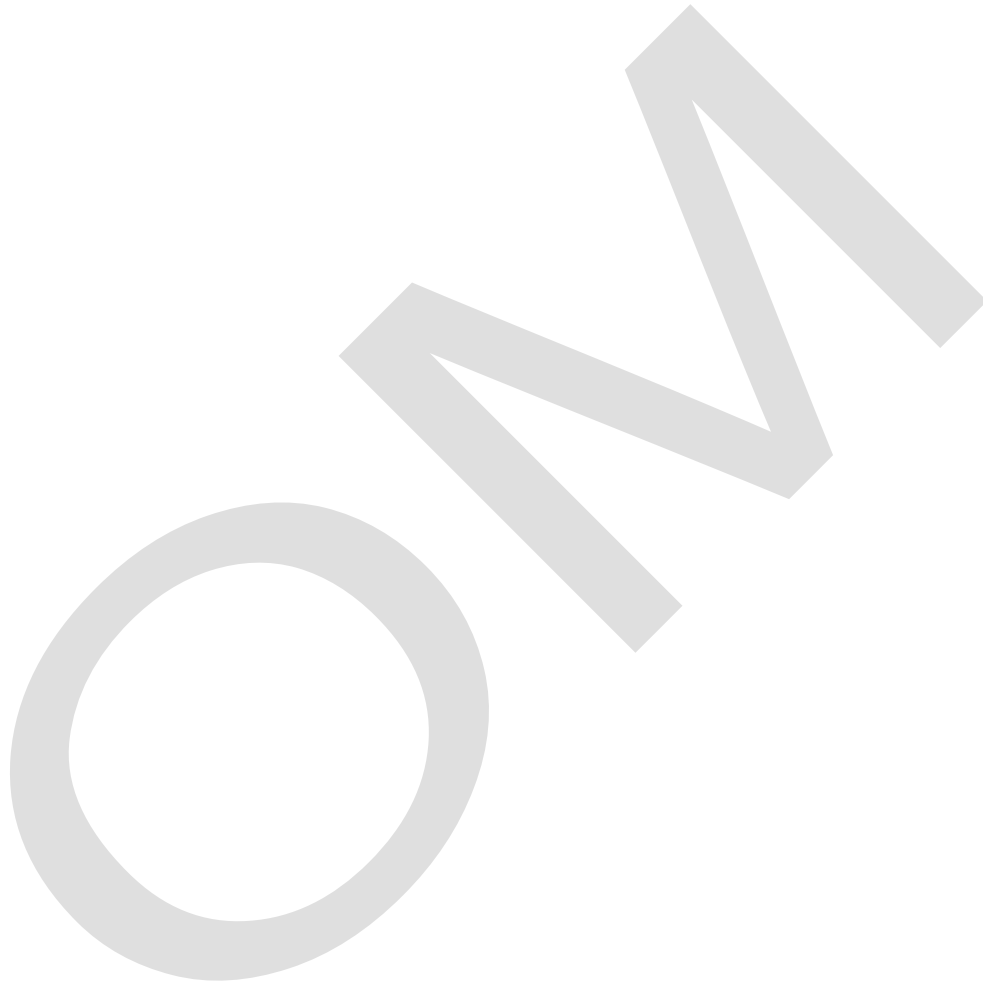
Day 2/180 Flowchart and Pseudocode

- **Create Flowchart and write pseudocode**
    1. Two numbers are given, find their Product.

Start

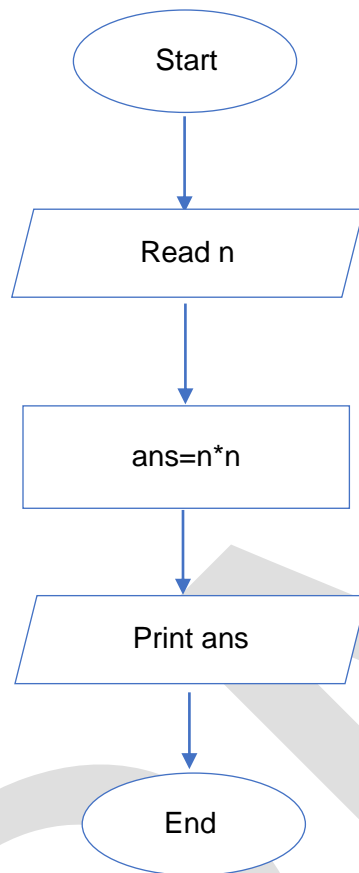Read a,b

ans=a*b

Print ans

End

Pseudocode

1. Read a, b
2. Ans = a * b
3. Print Ans

2. Two numbers are given a and b, find a divided by b.

Start

Read a,b

ans=a/b

Print ans

End

Pseudocode

1. Read a, b
2. Ans = a / b
3. Print Ans

3. Find the square of a number.

```
          ┌─────────┐
          │  Start  │
          └─────────┘
               │
               ▼
        ╱─────────────╱
       ╱    Read n    ╱
      ╱─────────────╱
               │
               ▼
      ┌─────────────────┐
      │     ans=n*n      │
      └─────────────────┘
               │
               ▼
        ╱─────────────╱
       ╱  Print ans   ╱
      ╱─────────────╱
               │
               ▼
          ┌─────────┐
          │   End   │
          └─────────┘
```

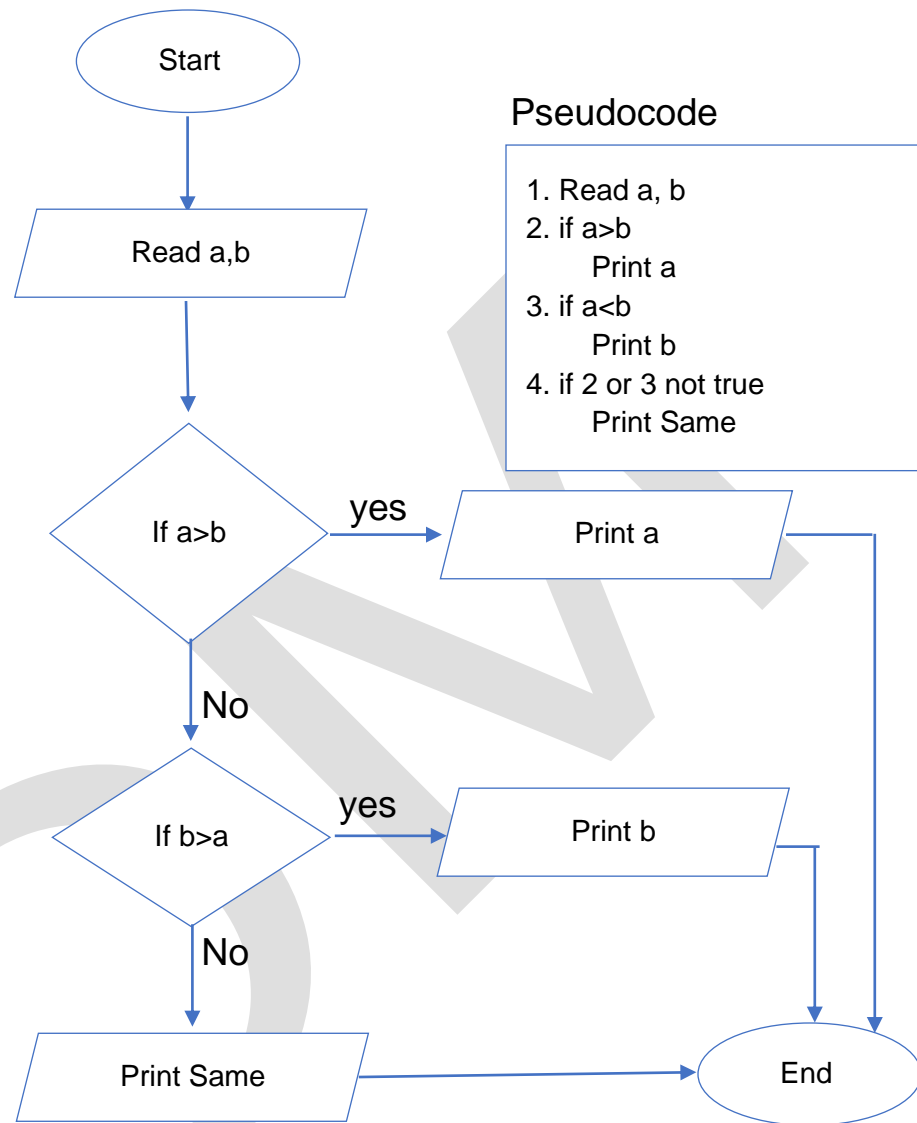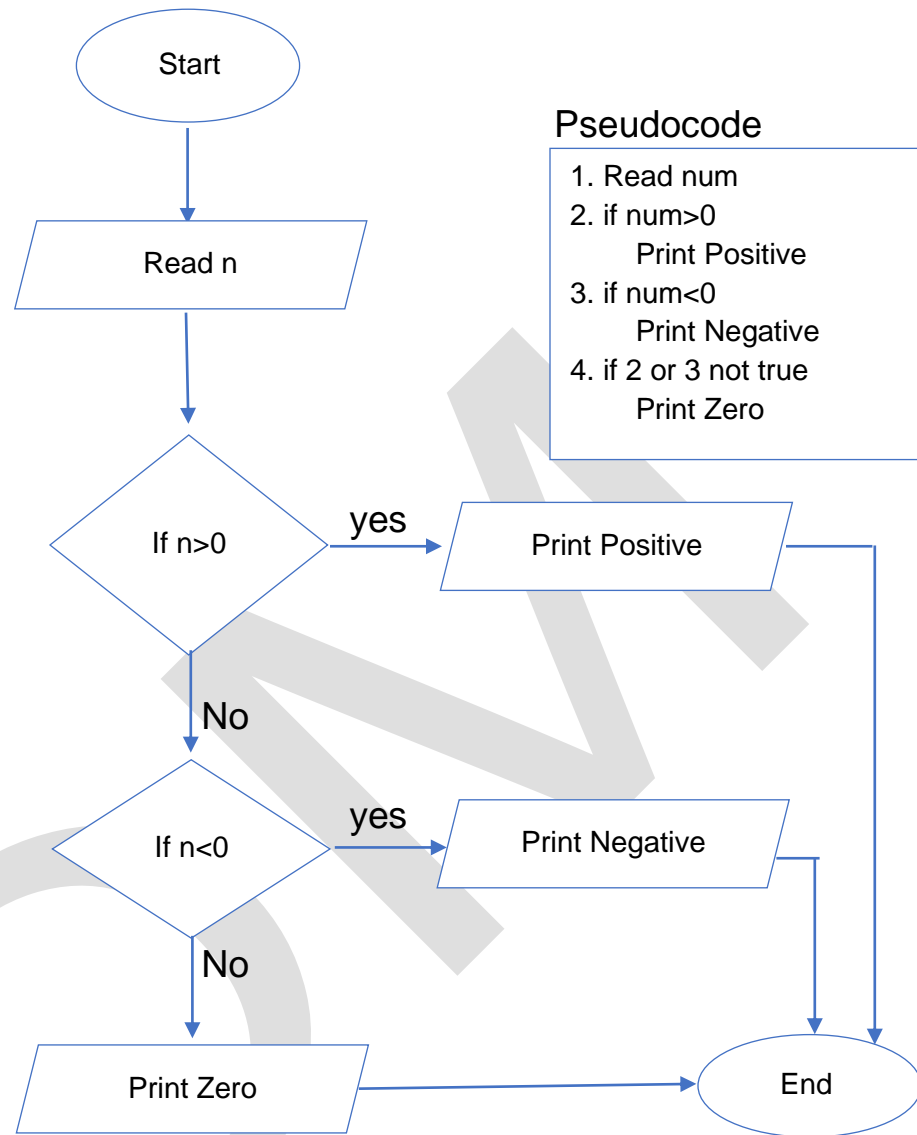## Pseudocode

1. Read num
2. Ans = num * num
3. Print Ans

4. Two numbers a and b are given, find which is greater, if both are equal print the same.

Start

Read a,b

If a>b → yes → Print a

No

If b>a → yes → Print b

No

Print Same → End

Pseudocode

1. Read a, b
2. if a>b
      Print a
3. if a<b
      Print b
4. if 2 or 3 not true
      Print Same

5. A number is given, find if it is positive or negative or zero.

Start

Read n

Pseudocode

1. Read num
2. if num>0
     Print Positive
3. if num<0
     Print Negative
4. if 2 or 3 not true
     Print Zero

If n>0   yes   Print Positive

No

If n<0   yes   Print Negative

No

Print Zero   End

6. Find the factorial of a given number.

Start

Read n

Fact =1
Count=1

count<=n

yes → fact=fact*count

count++

No

Print fact

End
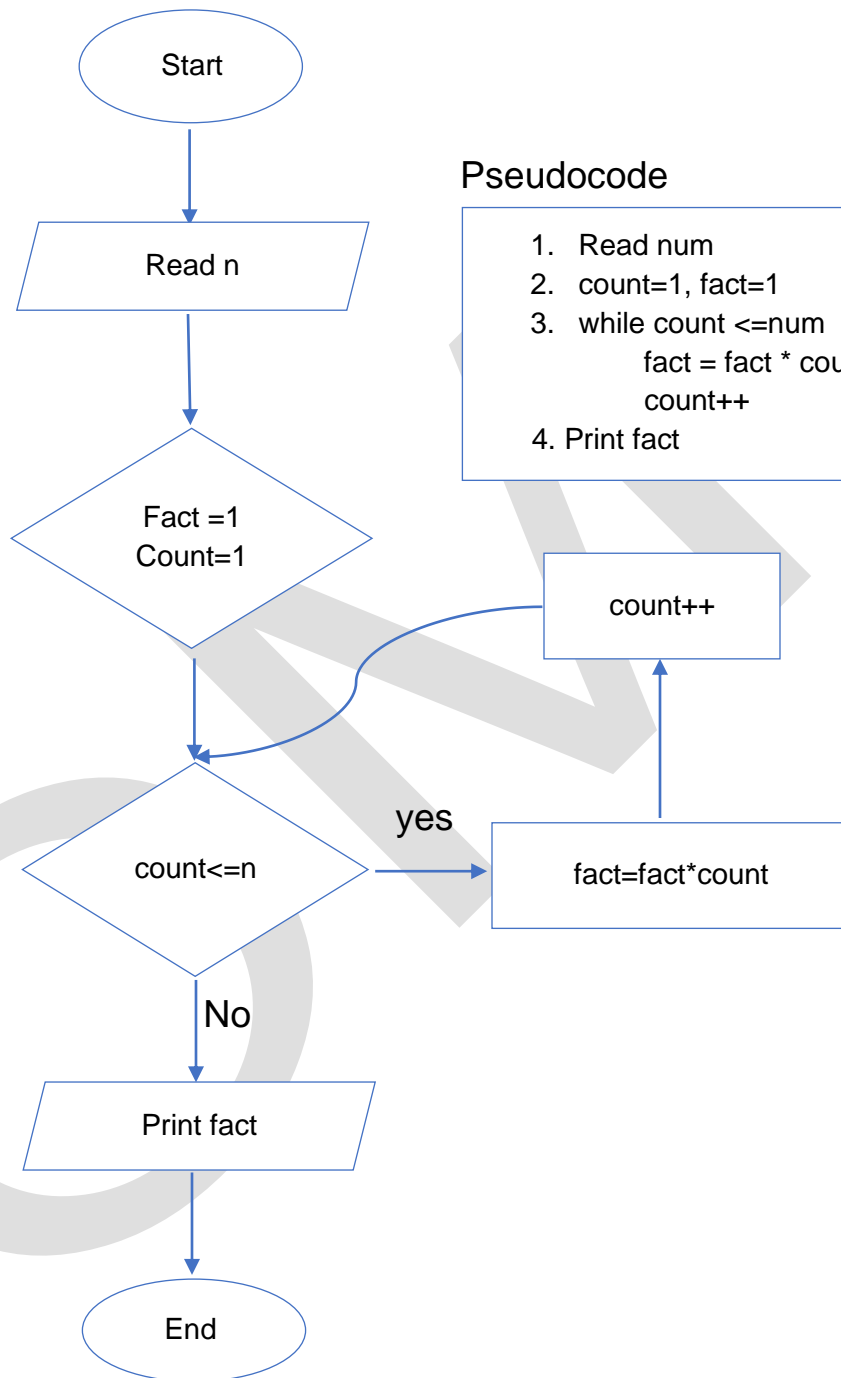
Pseudocode

1. Read num
2. count=1, fact=1
3. while count <=num
        fact = fact * count
        count++
4. Print fact

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Day 3/180 Introduction to c++

- **Print number**
    1. Two numbers are given, print their product
    Answer:-

    ```cpp
    01-Starting-with-c++ > G Print1.cpp > ⊘ main()
    1    #include<iostream>
    2    using namespace std;
    3    int main()
    4    {
    5        // 1.    Two numbers are given, print their product
    6        int a=10,b=20;
    7        cout<<a*b;
    8
    9    }
    10
    11
    ```

    ```
    PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

    [Running] cd "e:\om\DSA in c++\C++ code\01-Starting-with-c++\" &&
    code\01-Starting-with-c++\"Print1
    200
    [Done] exited with code=0 in 2.977 seconds
    ```

    2. Two numbers are given a and b, print a-b
    Answer:-

    ```cpp
    01-Starting-with-c++ > G Print2.cpp > ⊘ main()
    1    #include<iostream>
    2    using namespace std;
    3 ⌄ int main()
    4    {
    5        //2.    Two numbers are given a and b, print a-b
    6        int a=10,b=20;
    7        cout<<a-b;
    8    }
    ```

    ```
    PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

    [Running] cd "e:\om\DSA in c++\C++ code\01-Starting-with-c++
    code\01-Starting-with-c++\"Print2
    -10
    [Done] exited with code=0 in 0.66 seconds
    ```

3. Print 6*3 in output, don't print 18, just 6*3 should be in the output screen.

Answer:-

```
01-Starting-with-c++ > C Print3.cpp > ⊕ main()
  1
  2    #include<iostream>
  3    using namespace std;
  4  ∨ int main()
  5    {
  6        //3. Print 6*3 in output, don't print 18, just 6*3 should be in the output screen.
  7
  8        cout<<"6*3";
  9    }
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS                                        Coc
[Running] cd "e:\om\DSA in c++\C++ code\01-Starting-with-c++\" && g++ Print3.cpp -o Print3 && "e:
code\01-Starting-with-c++\"Print3
6*3
[Done] exited with code=0 in 0.77 seconds
```

4. If we have only 4 bits, How 3 and -6 will be written in 4 bits.

Answer:-

$$\textbf{3} \qquad \textbf{= 0011}$$

$$-6$$
$$6 \qquad = 0110$$
$$1\text{'s complement} = 1001$$
$$2\text{'s complement} = \quad +1$$
$$\textbf{-6} \qquad \textbf{= 1010}$$

5. If we have only 5 bits, How 13 and -16 will be written in 5 bits.

Answer:-

$$\textbf{13} \qquad \textbf{= 01101}$$
$$-16$$
$$16 \qquad = 10000$$
$$1\text{'s complement} = 01111$$
$$2\text{'s complement} = \quad +1$$
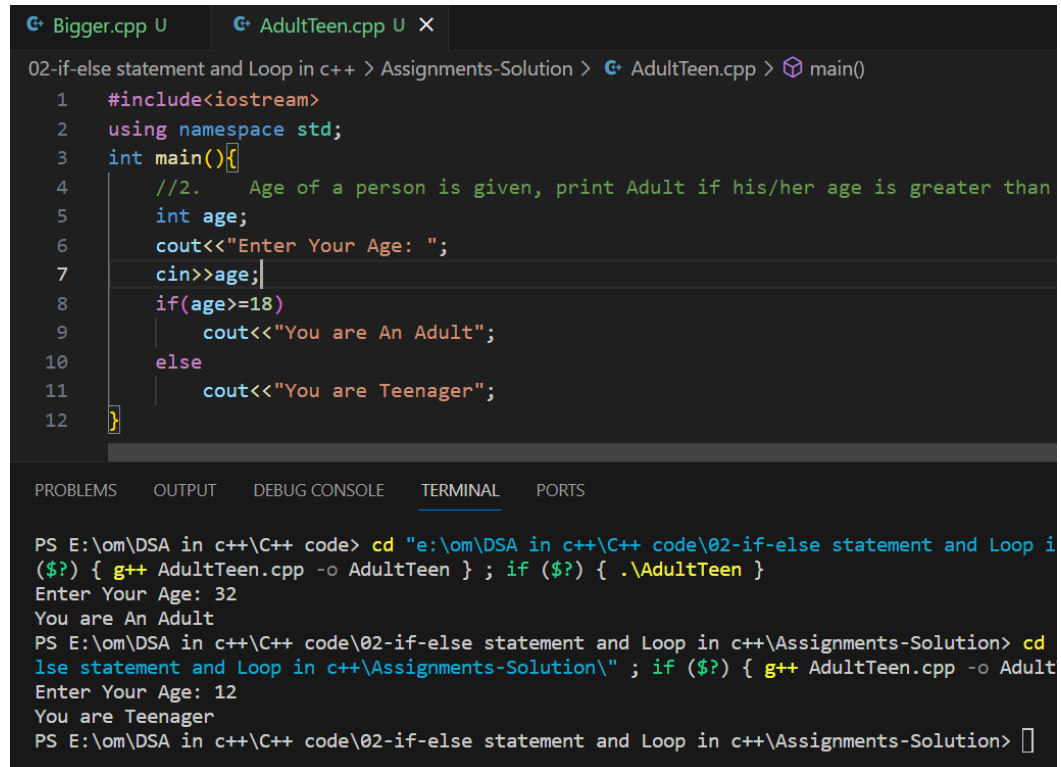$$\textbf{-16} \qquad \textbf{= 10000}$$

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Day 4/180 If-Else and For Loop

- **If-else**
    1. Two numbers are given, print the bigger number, It is given that both numbers can't be the same.
    Solution:-

```cpp
#include<iostream>
using namespace std;
int main(){
    //1.    Two numbers are given, print the bigger number, It is given that both numb
    int a,b;
    cout<<"ENter First number: ";
    cin>>a;
    cout<<"ENter Second number: ";
    cin>>b;
    if(a>b)
        cout<<a<<" is Greater than "<<b;
    else
        cout<<b<<" is Greater than "<<a;
}
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\om\DSA in c++\C++ code> cd "e:\om\DSA in c++\C++ code\02-if-else statement and Loop in c++\
($?) { g++ Bigger.cpp -o Bigger } ; if ($?) { .\Bigger }
ENter First number: 5
ENter Second number: 8
8 is Greater than 5
PS E:\om\DSA in c++\C++ code\02-if-else statement and Loop in c++\Assignments-Solution>
```

2. Age of a person is given, print Adult if his/her age is greater than 18, otherwise print Teenager.
Solution:-

```cpp
#include<iostream>
using namespace std;
int main(){
    //2.    Age of a person is given, print Adult if his/her age is greater than
    int age;
    cout<<"Enter Your Age: ";
    cin>>age;
    if(age>=18)
        cout<<"You are An Adult";
    else
        cout<<"You are Teenager";
}
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\om\DSA in c++\C++ code> cd "e:\om\DSA in c++\C++ code\02-if-else statement and Loop i
($?) { g++ AdultTeen.cpp -o AdultTeen } ; if ($?) { .\AdultTeen }
Enter Your Age: 32
You are An Adult
PS E:\om\DSA in c++\C++ code\02-if-else statement and Loop in c++\Assignments-Solution> cd
lse statement and Loop in c++\Assignments-Solution\" ; if ($?) { g++ AdultTeen.cpp -o Adult
Enter Your Age: 12
You are Teenager
PS E:\om\DSA in c++\C++ code\02-if-else statement and Loop in c++\Assignments-Solution> []
```

3. Take a number in input (ex n) and print the corresponding month to it. Ex: for n=1, print january, n=2, print feburary like this you need to give output. It is given that n will be greater than 0 and less than 13.

Solution:-

```cpp
2-if-else statement and Loop in c++ > Assignments-Solution > G Month.cpp > ⊘ main()
1    #include<iostream>
2    using namespace std;
3    int main(){
4        // 3.   Take a number in input (ex n) and print the corresponding month to it.
5        //      Ex: for n=1, print january, n=2, print feburary like this you need to give output.
6        //      It is given that n will be greater than 0 and less than 13.
7        int month;
8        cout<<"Please Enter Month: ";
9        cin>>month;
10       if (month==1)
11           cout<<"January";
12       else if (month==2)
13           cout<<"February";
14       else if (month==3)
15           cout<<"March";
16       else if (month==4)
17           cout<<"April";
18       else if (month==5)
19           cout<<"May";
20       else if (month==6)
21           cout<<"june";
22       else if (month==7)
23           cout<<"July";
24       else if (month==8)
25           cout<<"August";
26       else if (month==9)
27           cout<<"September";
28       else if (month==10)
29           cout<<"October";
30       else if (month==11)
31           cout<<"November";
32       else if (month==12)
33           cout<<"December";
34       else
35           cout<<"Please enter correct month";
36
37   }
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\om\DSA in c++\C++ code> cd "e:\om\DSA in c++\C++ code\02-if-else statement and Loop in c++\Assignments-Solution
Please Enter Month: 2
February
PS E:\om\DSA in c++\C++ code\02-if-else statement and Loop in c++\Assignments-Solution> cd "e:\om\DSA in c++\C++ code
Please Enter Month: 9
September
PS E:\om\DSA in c++\C++ code\02-if-else statement and Loop in c++\Assignments-Solution> cd "e:\om\DSA in c++\C++ code
Please Enter Month: 14
Please enter correct month
PS E:\om\DSA in c++\C++ code\02-if-else statement and Loop in c++\Assignments-Solution> |
```

4. Ticket Price Calculator: Create a program that asks the user for their age and checks if they qualify for a discounted ticket price (e.g., under 12 and over 65 get discounts), If they are eligible print "YES" else "NO".

Solution:-

```cpp
02-if-else statement and Loop in c++ > Assignments-Solution > G+ Ticket.cpp > ⦿ main()
1    #include<iostream>
2    using namespace std;
3    int main(){
4        // 4.   Ticket Price Calculator: Create a program that
5        // asks the user for their age and checks if they qualify for
6        // a discounted ticket price (e.g., under 12 and over 65 get discounts),
7        // If they are eligible print "YES" else "NO".
8
9        int age;
10       cout<<"Enter Your Age: ";
11       cin>>age;
12       if(age<12)
13           cout<<"YES";
14       else if (age>65)
15           cout<<"YES";
16       else
17           cout<<"No";
18   }
```

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

PS E:\om\DSA in c++\C++ code> cd "e:\om\DSA in c++\C++ code\02-if-else statement and Loop in c++\Assig
 ($?) { .\Ticket }
Enter Your Age: 66
YES
PS E:\om\DSA in c++\C++ code\02-if-else statement and Loop in c++\Assignments-Solution> cd "e:\om\DSA
nts-Solution\" ; if ($?) { g++ Ticket.cpp -o Ticket } ; if ($?) { .\Ticket }
Enter Your Age: 10
YES
PS E:\om\DSA in c++\C++ code\02-if-else statement and Loop in c++\Assignments-Solution> cd "e:\om\DSA
nts-Solution\" ; if ($?) { g++ Ticket.cpp -o Ticket } ; if ($?) { .\Ticket }
Enter Your Age: 45
No
PS E:\om\DSA in c++\C++ code\02-if-else statement and Loop in c++\Assignments-Solution> |
```

- **For Loop**
  1. Print "India will win the World Cup 2023", 20 times.
     Solution:-

```cpp
02-if-else statement and Loop in c++ > Assignments-Solution > G Print.cpp > Ꚛ main()
 1    #include<iostream>
 2    using namespace std;
 3    int main(){
 4        // 1.   Print "India will win the World Cup 2023", 20 times.
 5        for (int i = 1; i <= 20; i++)
 6        {
 7            cout<<i<<". India will win the World Cup 2023"<<endl;
 8        }
 9
10    }
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\om\DSA in c++\C++ code> cd "e:\om\DSA in c++\C++ code\02-if-else statement and Loop in c++\
$?) { .\Print }
1. India will win the World Cup 2023
2. India will win the World Cup 2023
3. India will win the World Cup 2023
4. India will win the World Cup 2023
5. India will win the World Cup 2023
6. India will win the World Cup 2023
7. India will win the World Cup 2023
8. India will win the World Cup 2023
9. India will win the World Cup 2023
10. India will win the World Cup 2023
11. India will win the World Cup 2023
12. India will win the World Cup 2023
13. India will win the World Cup 2023
14. India will win the World Cup 2023
15. India will win the World Cup 2023
16. India will win the World Cup 2023
17. India will win the World Cup 2023
18. India will win the World Cup 2023
19. India will win the World Cup 2023
20. India will win the World Cup 2023
PS E:\om\DSA in c++\C++ code\02-if-else statement and Loop in c++\Assignments-Solution>
```

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2. Print all Odd numbers from 1 to n, take n as an input from the user.

Solution:-

02-if-else statement and Loop in c++ > Assignments-Solution > C Odd.cpp > main()

```cpp
1    #include<iostream>
2    using namespace std;
3    int main(){
4        // 2.   Print all Odd numbers from 1 to n, take n as an input from the user.
5        int n;
6        cout<<"Enter number: ";
7        cin>>n;
8        for (int i = 1; i <= n; i++)
9        {
10           if(i%2!=0){
11               cout<<i<<endl;
12           }
13       }
14   }
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS E:\om\DSA in c++\C++ code> cd "e:\om\DSA in c++\C++ code\02-if-else statement and Loop in c++
{ .\Odd }
Enter number: 10
1
3
5
7
9
PS E:\om\DSA in c++\C++ code\02-if-else statement and Loop in c++\Assignments-Solution> 
```

3. Print all numbers from 1 to n, which is divisible by 4. Take n as an input from the user.

Solution:-

```cpp
02-if-else statement and Loop in c++ > Assignments-Solution > C+ DivisibleBy4.cpp > ♦ main()
1    #include<iostream>
2    using namespace std;
3    int main(){
4        // 3.   Print all numbers from 1 to n, which is divisible by 4. Take n as an input from the user.
5        int n;
6        cout<<"Enter number: ";
7        cin>>n;
8        for (int i = 1; i <= n; i++)
9        {
10           if(i%4==0){
11               cout<<i<<endl;
12           }
13       }
14   }
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   PORTS

```
PS E:\om\DSA in c++\C++ code> cd "e:\om\DSA in c++\C++ code\02-if-else statement and Loop in c++\Assignments-Solution\"
leBy4 } ; if ($?) { .\DivisibleBy4 }
Enter number: 20
4
8
12
16
20
PS E:\om\DSA in c++\C++ code\02-if-else statement and Loop in c++\Assignments-Solution> |
```

Day 5/180: For Loop in advance

1. Print number from 280 to 250 with the help of for loop.
   Solution:-

```cpp
#include<iostream>
using namespace std;
int main(){
    // 1.  Print number from 280 to 250 with the help of for loop.
    for (int i = 280; i >= 250; i--)
    {
        cout<<i<<" ";
    }
}
```

```
PS E:\om\DSA in c++\C++ code> cd "e:\om\DSA in c++\C++ code\03-Questions on Loop\Assignments-Solution\" ; if ($?) { g++ Print
t01 }
280 279 278 277 276 275 274 273 272 271 270 269 268 267 266 265 264 263 262 261 260 259 258 257 256 255 254 253 252 251 250
PS E:\om\DSA in c++\C++ code\03-Questions on Loop\Assignments-Solution>
```

2. Print char from 'A' to 'Z' with the help of a for loop.
   Solution:-

```cpp
#include<iostream>
using namespace std;
int main(){
    // 2.   Print char from 'A' to 'Z' with the help of a for loop.

    for (char i = 'A'; i <= 'Z'; i++)
    {
        cout<<i<<" ";
    }
}
```

```
PS E:\om\DSA in c++\C++ code> cd "e:\om\DSA in c++\C++ code\03-Questions on Loop
t02 }
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
PS E:\om\DSA in c++\C++ code\03-Questions on Loop\Assignments-Solution>
```

3. Print char from 'Z' to 'A' with the help of a for loop.
   Solution:-

```cpp
03-Questions on Loop > Assignments-Solution > G Print03.cpp > @ main()
 2    using namespace std;
 3    int main(){
 4        // 3.   Print char from 'Z' to 'A' with the help of a for loop.
 5
 6        for (char i = 'Z'; i >= 'A'; i--)
 7        {
 8            cout<<i<<" ";
 9        }
10    }
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\om\DSA in c++\C++ code> cd "e:\om\DSA in c++\C++ code\03-Questions on Loop\
t03 }
Z Y X W V U T S R Q P O N M L K J I H G F E D C B A
PS E:\om\DSA in c++\C++ code\03-Questions on Loop\Assignments-Solution>
```

4. There is an Arithmetic Progression, First number is 220 and Common Difference is 7. So print all the numbers from 220 to 730 which follow the AP.
   Solution:-

```cpp
03-Questions on Loop > Assignments-Solution > G Print04.cpp > @ main()
 1    #include<iostream>
 2    using namespace std;
 3    int main(){
 4        // 4.   There is an Arithmetic Progression,
 5        // First number is 220 and Common Difference is 7.
 6        // So print all the numbers from 220 to 730 which follow the AP.
 7
 8        for (int i = 220; i <= 730; i=i+7)
 9        {
10            cout<<i<<" ";
11        }
12    }
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\om\DSA in c++\C++ code> cd "e:\om\DSA in c++\C++ code\03-Questions on Loop\Assignments-Solution\" ; if ($?) { g++ Print04.cpp -o Print04 } ; if ($?) { .\Prin
t04 }
220 227 234 241 248 255 262 269 276 283 290 297 304 311 318 325 332 339 346 353 360 367 374 381 388 395 402 409 416 423 430 437 444 451 458 465 472 479 486 493 500
507 514 521 528 535 542 549 556 563 570 577 584 591 598 605 612 619 626 633 640 647 654 661 668 675 682 689 696 703 710 717 724
PS E:\om\DSA in c++\C++ code\03-Questions on Loop\Assignments-Solution>
```

5. Print Sum of square of first n natural number.
Solution:-

```
03-Questions on Loop > Assignments-Solution > G+ Print05.cpp > ☺ main()
   1    #include<iostream>
   2    using namespace std;
   3    int main(){
   4        // 5.   Print Sum of square of first n natural number.
   5        int n,sum=0;
   6        cout<<"Enter the number: ";
   7        cin>>n;
   8        for (int i = 1; i <= n; i=i+1)
   9        {
  10            sum=sum+i*i;
  11        }
  12        cout<<"Sum of square of first "<<n<<" natural number is: "<<sum;
  13    }
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\om\DSA in c++\C++ code> cd "e:\om\DSA in c++\C++ code\03-Questions on Loop\Assignm
t05 }
Enter the number: 3
Sum of square of first 3 natural number is: 14
PS E:\om\DSA in c++\C++ code\03-Questions on Loop\Assignments-Solution> cd "e:\om\DSA i
rint05.cpp -o Print05 } ; if ($?) { .\Print05 }
Enter the number: 5
Sum of square of first 5 natural number is: 55
PS E:\om\DSA in c++\C++ code\03-Questions on Loop\Assignments-Solution> █
```

6. Print Sum of cube of first n natural number
Solution:-

```
03-Questions on Loop > Assignments-Solution > G+ Print06.cpp > ☺ main()
   1    #include<iostream>
   2    using namespace std;
   3    int main(){
   4        // 6.   Print Sum of cube of first n natural number
   5        int n,sum=0;
   6        cout<<"Enter the number: ";
   7        cin>>n;
   8        for (int i = 1; i <= n; i=i+1)
   9        {
  10            sum=sum+i*i*i;
  11        }
  12        cout<<"Sum of cube of first "<<n<<" natural number is: "<<sum;
  13    }
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\om\DSA in c++\C++ code> cd "e:\om\DSA in c++\C++ code\03-Questions on Loop\
t06 }
Enter the number: 3
Sum of cube of first 3 natural number is: 36
PS E:\om\DSA in c++\C++ code\03-Questions on Loop\Assignments-Solution> cd "e:\om
rint06.cpp -o Print06 } ; if ($?) { .\Print06 }
Enter the number: 5
Sum of cube of first 5 natural number is: 225
PS E:\om\DSA in c++\C++ code\03-Questions on Loop\Assignments-Solution> ▯
```

7. Print n'th Fibonacci number.

Solution:-

```cpp
#include<iostream>
using namespace std;
int main(){
    int n,curr,last=0,prev=1;
    cout<<"Enter Number ";
    cin>>n;
    for (int i = 1; i < n-1; i++)
    {
        curr=last+prev;
        last=prev;
        prev=curr;
    }
    cout<<n<<"th fibonacii series is: "<<curr;
}
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\om\DSA in c++\C++ code> cd "e:\om\DSA in c++\C++ code\03-Questions on Loop\Assignme
t07 }
Enter Number 5
5th fibonacii series is: 3
PS E:\om\DSA in c++\C++ code\03-Questions on Loop\Assignments-Solution> cd "e:\om\DSA in
rint07.cpp -o Print07 } ; if ($?) { .\Print07 }
Enter Number 9
9th fibonacii series is: 21
PS E:\om\DSA in c++\C++ code\03-Questions on Loop\Assignments-Solution>
```