32.

#include <iostream>

using namespace std;

int main ()

{ char ch87078634=0; //entered\_character;

int ch87078634\_val=0; //respective\_ACSI\_value\_of\_the\_character;

cout<<"Please\_input\_any\_character: ";//input\_the\_data

cin>>ch87078634;

ch87078634\_val=ch87078634;

if (ch87078634\_val>=33 && ch87078634\_val<=47 || ch87078634\_val>=58 && ch87078634\_val<=64 || ch87078634\_val>=91 && ch87078634\_val<=96 || ch87078634\_val>=123 && ch87078634\_val<=126)

//condition\_for\_the\_special\_symbols;

{

cout<<"Special\_symbol\n";

}

if (ch87078634\_val>=48 && ch87078634\_val<=57) //condition\_for\_the\_numbers

{

cout<<"\_Number\_\n";

}

if (ch87078634\_val>=65 && ch87078634\_val<=90) //condition\_for\_capital\_letter;

{

cout<<"The\_capital\_letter\n";

}

if (ch87078634\_val>=97 && ch87078634\_val<=122) //condition\_statement\_for\_the\_small\_letter

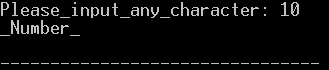
{

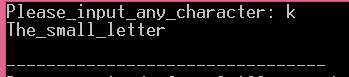
cout<<"The\_small\_letter\n";

}

return 0;

}





33.

#include <iostream>

using namespace std;

int main ()

{

//to\_store\_the\_integer\_number

int input\_SM;

//display\_the\_question

cout<<"Please,\_enter\_any\_integer\_number: ";

//input\_data

cin>>input\_SM;

//if\_function\_condition

if (input\_SM%2==0)

{

//output\_for\_even

cout <<input\_SM<<" is\_EVEN\_NUMBER!\n";

}

//for\_other\_cases

else

{

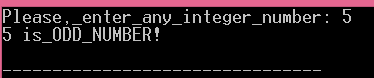
//output\_for\_odd

cout<<input\_SM<<" is\_ODD\_NUMBER!\n";

}

return 0;

}



34.

#include <iostream>

using namespace std;

int main ()

{

int peop\_870786; //for\_the\_people

int car\_870786; // for\_the\_cars

int bus\_870786; // for\_buses

cout<<"Hello!\_Please,\_input\_the\_number\_of\_People: ";

cin >> peop\_870786;

cout<<endl;

cout<<"Please,\_input\_the\_amount\_of\_cars: ";

cin>> car\_870786;

cout<<endl;

cout<<"Please,\_input\_the\_amount\_of\_busses: ";

cin>> bus\_870786;

cout<<endl;

//here\_I\_start\_if\_else\_loop

if (car\_870786>peop\_870786)

{

cout<<"We\_SHOULD\_take\_the\_cars!\n";

}

//else\_if\_function\_gives\_opportunity\_to\_define\_more\_conditions

if (car\_870786<peop\_870786)

{

cout<<"We\_SHOULD\_NOT\_take\_the\_cars!\n";

}

//another else if

if (car\_870786==peop\_870786)

{

cout<<"We\_CANNOT\_decide!\n";

}

if (bus\_870786>car\_870786)

{

cout<< "That\_is\_too\_many\_buses!\n";

}

if (bus\_870786<car\_870786)

{

cout<<"Maybe\_we\_COULD\_take\_the\_buses!\n";

}

if (bus\_870786==car\_870786)

{

cout<<"We\_still\_CANNOT\_decide!\n";

}

if (peop\_870786>bus\_870786)

{

cout<<"All\_right\_LET\_us\_just\_take\_buses!\n";

}

if (peop\_870786<=bus\_870786)

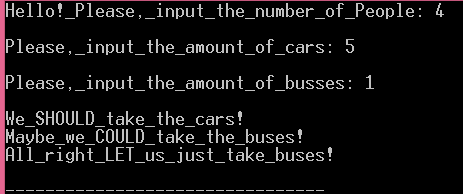
{

cout<<"Fine\_LET\_us\_stay\_home\_then!\n";

}

return 0;

}



35. //35

#include <iostream>

using namespace std;

int main ()

{

//variable declarations

double Gross870786, HRA870786, DA870786, sal870786;

//ask to input information;

cout<<"Hello! Please, input your salary in dollars: ";

cin>>sal870786;

cout<<"\n";

//start conditions with if else loop

if (sal870786<1500)

{

HRA870786=0.1\*sal870786; //determination of HRA

DA870786=0.9\*sal870786; //determination of DA

Gross870786=sal870786+HRA870786+DA870786; //Determination of gross

cout<<Gross870786;

}

//another if condition

if (sal870786>=1500)

{

HRA870786=500; //determination of HRA

DA870786=0.98\*sal870786; //determination of DA

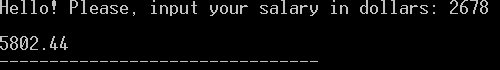
Gross870786=sal870786+HRA870786+DA870786; //Determination of gross

cout<<Gross870786;

}

return 0;

}



36. //36

#include <iostream>

using namespace std;

int main ()

{

//variable declarations with double type

double Far870786, Cel870786, choice870786;

//ask to select between converters

cout << "Please\_select\_which\_converter\_you\_prefer: \n";

cout<<"\_Fahrenheit-> \_Celsius - select 1\n";

cout<<"\_Celsius -> \_Fahrenheit - select 2\n";

cin>>choice870786;

//begin if condition loop;

if (choice870786==1) //F to C converter;

{

cout<<"Input\_temperature in F: ";

cin>>Far870786;

cout<<endl;

Cel870786=(Far870786-32)\*5/9;

cout<<Cel870786;

}

if (choice870786==2) //C to F converter;

{

cout<<"Input\_tempeature in C: ";

cin>>Cel870786;

cout<<"\n";

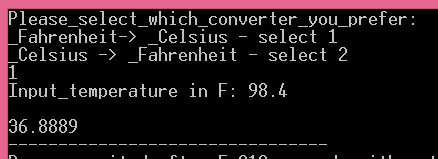
Far870786=Cel870786\*9/5+32;

cout<<Far870786;

}

return 0;

}



37.

#include <iostream>

#include <cctype> //for\_charters\_analysis

using namespace std;

int main ()

{ char input87078634[100]={0}; //input\_text\_storage;

cout<<"Please\_enter\_the\_text: ";

cin.getline(input87078634, 100); //input\_text;

int n87078634=0;

for (int i8634=0; input87078634[i8634] !='\0'; i8634++)

if (std::islower(input87078634[i8634])){

n87078634=n87078634+1; } //here\_it\_counts\_number\_of\_small\_letters

if (n87078634>0) //if\_there\_are\_any\_small\_letter

{ cout<<"\_INVALID\_"; }

else

{cout<<"\_VALID\_"; }

return 0;}

C:\Users\Admin\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Новый рисунок.bmp

C:\Users\Admin\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Новый рисунок.bmp

38. //38

#include <iostream>

using namespace std;

int main ()

{

int n87078634;//number\_entered

int a87078634=0; //first\_member

int b87078634=1; //second\_member

int n\_fol87078634, i; //n87078634 -the\_following\_members

cout<<"Input\_the\_number: ";

cin>>n87078634;

cout <<a87078634<<" "<<b87078634<<" "; //for\_displaying\_starting from\_this numbers

for (i=1; i<n87078634-1; i++){ //I open the for loop

n\_fol87078634=a87078634+b87078634; //determination of the following term

a87078634=b87078634; //shows that\_in next time first term\_becomes the second term

b87078634=n\_fol87078634; //shows\_that in\_repeated\_operation the\_second\_becomes the sum of first two terms

cout <<n\_fol87078634<<" "; //displaying\_the\_results

}

return 0;

}

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C:\Users\Admin\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Новый рисунок (1).bmp

39. //39

#include <iostream>

using namespace std;

int main ()

{

int ag187078634, ag287078634, ag387078634, sum87078634;//input

cout<<"Please\_input\_three\_angles: ";

cin>>ag187078634;//1st\_angle

cout<<endl;

cin>>ag287078634;//2nd\_angle

cout<<endl;

cin>>ag387078634;//3rd\_angle

cout<<endl;

sum87078634=ag187078634+ag287078634+ag387078634;

//condition\_statement\_if

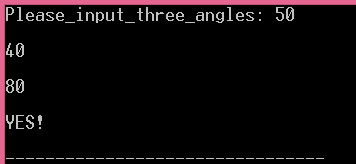
if (sum87078634<180){

cout<<"YES!\n";

} else { cout <<"NO!";

}

}



40.

#include <iostream>

using namespace std;

int main ()

{

int rev87078634=0;

int nb87078634; //input

cout <<"Please\_input\_the\_number: ";

cin>>nb87078634;

cout<<endl;

int store87078634=nb87078634; //to\_store\_the\_original\_one

while (nb87078634>0)//while\_loop\_starts\_for\_defining\_reverse\_input

{ rev87078634=nb87078634%10+rev87078634\*10;//defines\_the\_reversed\_of\_the\_original\_number

nb87078634=nb87078634/10;//every\_step\_the\_input\_is\_divided\_by 10;

}

//if\_else\_conditions

if (store87078634==rev87078634){

cout<<"It\_is\_Palindrome\_number!\n";

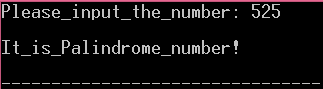
}

else { cout<<"It\_is\_NOT\_Palindrome\_number!\n";

}

return 0;

}



41. //41

#include <iostream>

using namespace std;

int main ()

{

int nb87078634; //entered data;

cout<<"Enter number: \n";

cin>>nb87078634;

cout<<endl;

//I start if condition here

if (nb87078634>0){ //accepts only positive numbers!

if (nb87078634!=2 && nb87078634!=3 && nb87078634!=5 && nb87078634!=7)

{ if (nb87078634%7==0 | nb87078634%5==0 | nb87078634%2==0 | nb87078634%3==0){

cout<<"0\n";

}

else { //if it is equal to 2, 3, 5, 7

cout<<"1\n";

}

}

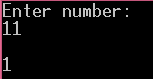
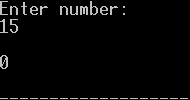
else

cout << "1\n";

}

return 0;

}

42. //42

#include <iostream>

using namespace std;

int main ()

{ int nb187078634; //1st input;

int nb287078634; //2nd input

int ans87078634; //answer

cout<<"Input 2 numbers: ";

cin>>nb187078634;

cout<<endl;

cin>>nb287078634;

cout<<endl;

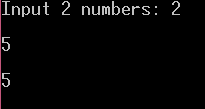
//here the ternary operators start

ans87078634=(nb187078634>nb287078634 | nb187078634==nb287078634)?nb187078634:nb287078634;

cout <<ans87078634<<endl;

return 0;

}



43. //43

#include <iostream>

using namespace std;

int main ()

{

int nb87078634; //declaration

cout<<"Enter\_the\_weeks's\_day\_from\_1\_to\_7: \n"; //asks\_to\_enter\_the\_data

cin>>nb87078634; //store\_the\_input\_value

cout<<endl;

if (nb87078634==1){

cout<<"\_Sunday\_";}

if (nb87078634==2){

cout<<"\_Monday\_";}

if (nb87078634==3){

cout<<"\_Tuesday\_";}

if (nb87078634==4){

cout<<"\_Wednesday\_";}

if (nb87078634==5){

cout<<"\_Thursday\_";}

if (nb87078634==6){

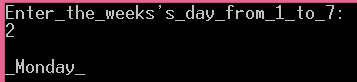
cout<<"\_Friday\_";}

if (nb87078634==7){

cout<<"\_Saturday\_";}

return 0;

}



44. //44

#include <iostream>

using namespace std;

int main ()

{

int nb187078634; //1st number;

int nb287078634; // 2nd number;

int nb387078634; //2rd number

cout <<"Enter three number: \n";

cin>>nb187078634;

cout<<endl;

cin>>nb287078634;

cout<<endl;

cin>>nb387078634;

cout<<endl;

if (nb187078634>nb287078634 && nb187078634>nb387078634)

{cout <<"Output: "<<nb187078634<<endl;}

if (nb187078634<nb287078634 && nb287078634>nb387078634)

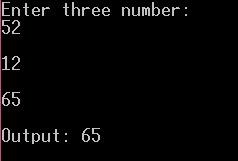
{cout <<"Output: "<<nb287078634<<endl;}

if (nb187078634<nb387078634 && nb287078634<nb387078634)

{cout <<"Output: "<<nb387078634<<endl;}

return 0;

}



45.

//45

#include <iostream>

using namespace std;

int main ()

{

double earth\_87078634; // earth's\_mass;

int choice\_87078634; //for\_planet\_choosing\_desicion

double weight\_87078634; //calculated\_weight

cout<<"Please\_ENTER\_Mass\_on\_the\_Earth\_(pounds): "; //entered data

cin>>earth\_87078634;

cout<<endl;

cout<<"Venus\_\_\_\_1\_\_\_\_\_\_\_\_\_\_\_\_Mars\_\_\_2\_\_\_\_\_\_\_\_\_\_\_\_\_Jupiter\_\_3\n";

cout<<"Saturn\_\_\_4\_\_\_\_\_\_\_\_\_\_\_\_Uranus\_\_\_5\_\_\_\_\_\_\_\_\_\_\_Neptune\_\_6\n";

cout<<"Make a choice: ";

cin>>choice\_87078634;

cout <<endl;

//all\_condition\_statement\_intended\_to\_define\_the\_value\_of\_gravity\_constants

if (choice\_87078634==1){

weight\_87078634=0.78\*earth\_87078634; }//defining\_equation}

else if (choice\_87078634==2){

weight\_87078634=0.39\*earth\_87078634;} //defining\_equation}

else if (choice\_87078634==3){

weight\_87078634=2.65\*earth\_87078634; }//defining\_equation}

else if (choice\_87078634==4){

weight\_87078634=1.17\*earth\_87078634; }//defining\_equation}

else if (choice\_87078634==5){

weight\_87078634=1.05\*earth\_87078634; }//defining\_equation}

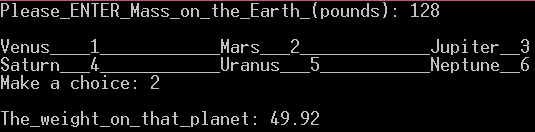
else if (choice\_87078634==6){

weight\_87078634=1.23\*earth\_87078634; }//defining\_equation}

cout<<"The\_weight\_on\_that\_planet: "<<weight\_87078634<<endl;

return 0;

}



46.

#include <iostream>

using namespace std;

int main ()

{

char name\_87078634[100];

int age\_87078634;

cout<<"Please\_ENTER\_your\_name: ";

cin>>name\_87078634;

cout<<endl;

cout<<"Please\_ENTER\_your\_age: ";

cin>>age\_87078634;

cout<<endl;

if (age\_87078634>16)

{

if (age\_87078634>18)

{

if (age\_87078634>25) {

cout<<"You\_can\_do\_anything\_legal "<<name\_87078634<<"!\n" }

else

{ cout<<"You\_cannot\_rent\_a\_car "<<name\_87078634<<"!\n";

} }

else

{ cout<<"You\_cannot\_vote "<<name\_87078634<<"!\n";

cout<<"You\_cannot\_rent\_a\_car "<<name\_87078634<<"!\n"; }

}

else

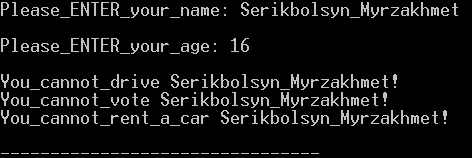
{ cout << "You\_cannot\_drive "<<name\_87078634<<"!\n";

cout<<"You\_cannot\_vote "<<name\_87078634<<"!\n";

cout<<"You\_cannot\_rent\_a\_car "<<name\_87078634<<"!\n"; }

return 0;

}



47.

#include <iostream>

using namespace std;

int main ()

{

int year\_8634, date\_8634, month\_8634; //input\_data;

int total\_date\_8634; //converted\_day\_number;

cout<<"Please\_ENTER\_any\_year\_greater\_than\_1900\_in\_4\_digits: ";

cin>>year\_8634;

cout<<endl;

cout<<"enter\_month: ";

cin>>month\_8634;

cout<<"\nenter\_date: ";

cin>>date\_8634;

cout<<"\n";

int num\_leap\_8634;

num\_leap\_8634=(year\_8634-1900)/4; //I\_calculate\_the\_number\_of\_leap\_years\_between\_entered\_year\_and\_1900

int datef\_8634; //the\_number\_of\_dates\_from\_the\_beginning\_of\_the\_year

if (year\_8634%4==0 && year\_8634%100!=0 || year\_8634%400==0) //if\_the\_year\_is\_leap

{

//conditions\_for\_each\_month:

if (month\_8634==1){ datef\_8634=date\_8634; }

if (month\_8634==2){ datef\_8634=date\_8634+31; }

if (month\_8634==3){ datef\_8634=date\_8634+60; }

if (month\_8634==4){ datef\_8634=date\_8634+91; }

if (month\_8634==5){ datef\_8634=date\_8634+121; }

if (month\_8634==6){ datef\_8634=date\_8634+152; }

if (month\_8634==7){ datef\_8634=date\_8634+182; }

if (month\_8634==8){ datef\_8634=date\_8634+213; }

if (month\_8634==9){ datef\_8634=date\_8634+244; }

if (month\_8634==10){ datef\_8634=date\_8634+274; }

if (month\_8634==11){ datef\_8634=date\_8634+305; }

if (month\_8634==12){ datef\_8634=date\_8634+335; }

}

else //for\_all\_other\_cases;

{

//conditions\_for\_each\_month:

if (month\_8634==1){ datef\_8634=date\_8634; }

else if (month\_8634==2){ datef\_8634=date\_8634+31; }

else if (month\_8634==3){ datef\_8634=date\_8634+59; }

else if (month\_8634==4){ datef\_8634=date\_8634+90; }

else if (month\_8634==5){ datef\_8634=date\_8634+120; }

else if (month\_8634==6){ datef\_8634=date\_8634+151; }

else if (month\_8634==7){ datef\_8634=date\_8634+181; }

else if (month\_8634==8){ datef\_8634=date\_8634+212; }

else if (month\_8634==9){ datef\_8634=date\_8634+243; }

else if (month\_8634==10){ datef\_8634=date\_8634+273; }

else if (month\_8634==11){ datef\_8634=date\_8634+304; }

else if (month\_8634==12){ datef\_8634=date\_8634+334; }

}

total\_date\_8634=((year\_8634-1900)-num\_leap\_8634)\*365+num\_leap\_8634\*366+(datef\_8634); //I\_calculate\_total\_days;

//DISPLAYING\_the\_results:

if ((total\_date\_8634-1)%7==0)

{cout<<"\_MONDAY\_"; }

else if ((total\_date\_8634-1)%7==1)

{cout<<"\_TUESDAY\_"; }

else if ((total\_date\_8634-1)%7==2)

{cout<<"\_WEDNESDAY\_"; }

else if ((total\_date\_8634-1)%7==3)

{cout<<"\_THURSDAY\_"; }

else if ((total\_date\_8634-1)%7==4)

{cout<<"\_FRIDAY\_"; }

else if ((total\_date\_8634-1)%7==5)

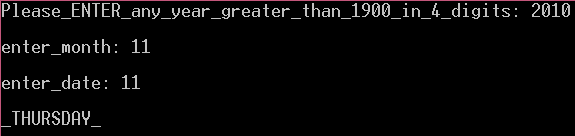
{cout<<"\_SATURDAY\_"; }

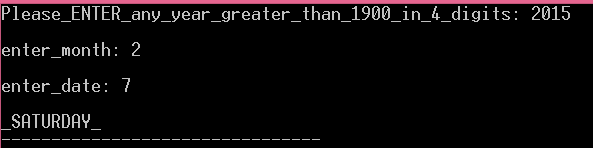
else if ((total\_date\_8634-1)%7==6)

{cout<<"\_SUNDAY\_"; }

return 0;

}

}



48. //48

#include <iostream>

using namespace std;

int main ()

{ int ar\_87078634[5]; //iputted\_array;

cout<<"Please\_ENTER\_5\_numbers: ";

//for\_loop\_starts:

for (int i=1; i<6; ++i)

{

cin>>ar\_87078634[i];

}

cout<<"Array\_is: ";

for (int i=1; i<6; ++i)

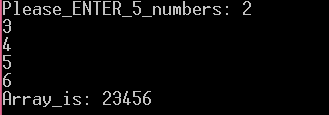
{

cout<<ar\_87078634[i];

}

return 0;

}



49.

#include <iostream>

using namespace std;

int main ()

{ int num\_87078634=0, sum\_87078634=0; //number\_declaration;

//while\_loop\_starts\_here:

while (num\_87078634>=0 | num\_87078634<0)

{

cout<<"The\_total\_so\_far: "; //declares\_total\_sum

cout<<sum\_87078634<<endl;

cout<<"Please\_ENTER\_numbers: ";

cin>> num\_87078634;

sum\_87078634=num\_87078634+sum\_87078634;

if (num\_87078634==0){ break;

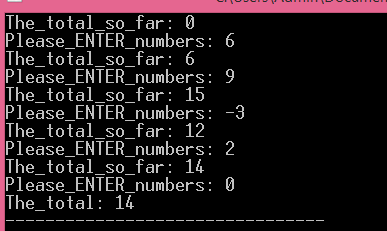
}

}

cout<<"The\_total: "<<sum\_87078634;

return 0;

}



50.

//50

#include <iostream>

using namespace std;

int main ()

{ int num\_87078634, av\_87078634=0, a\_87078634=0, count\_87078634=0; //declaration\_of\_the\_average\_and\_number;

do //loop\_starts;

{

cout<<"enter\_number: ";

cin>>num\_87078634;

cout<<endl;

if (num\_87078634!=0){ count\_87078634=count\_87078634+1; //count\_of\_the\_numbers

}

a\_87078634+=num\_87078634;

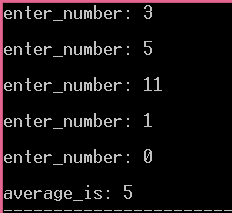
av\_87078634=a\_87078634/count\_87078634; //average\_calculation\_equation;

} while (num\_87078634!=0);

cout<<"average\_is: "<<av\_87078634; //displays\_output

return 0;

}



51. //51

#include <iostream>

using namespace std;

int main ()

{ int num\_87078634;

int fac\_87078634=1;

cout<<"input: ";

cin>>num\_87078634;

while (num\_87078634>0)

{

fac\_87078634\*=num\_87078634;//factorial\_determination

num\_87078634=num\_87078634-1;

} cout <<"Factorial\_is: "<<fac\_87078634;

return 0;

}

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52.

//52

#include <iostream>

using namespace std;

int main ()

{ int nb\_87078634=0, out\_87078634; //entered\_number;

cout<<"enter\_the\_number: ";

cin>>nb\_87078634;

int a\_87078634=0;

while (nb\_87078634>0)

{

out\_87078634=2+a\_87078634; //every\_time\_\_adds;

cout<<out\_87078634<<" ";

a\_87078634=out\_87078634;

nb\_87078634=nb\_87078634-1; //it\_counts\_till\_number\_is\_0

if (nb\_87078634==0)

{break; //then\_finishes\_the\_loop

}}

return 0;

}

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53. //53

#include <iostream>

using namespace std;

int main ()

{

int number\_1\_87078634; //I\_declare\_first\_number;

int number\_2\_87078634; //second\_number;

int hcf\_87078634, n\_87078634=1; //highest\_common\_factor\_and\_counter;

cout<<"Please\_enter\_the\_numbers: ";

cin>>number\_1\_87078634;

cout<<endl;

cin>>number\_2\_87078634;

cout<<endl;

int a\_87078634=0, b\_87078634=0; //for\_the\_calculation\_of\_the\_remainders

while (number\_1\_87078634!=0 && number\_2\_87078634!=0)

{

a\_87078634=number\_1\_87078634%n\_87078634;

b\_87078634=number\_2\_87078634%n\_87078634;

if (a\_87078634==b\_87078634 && a\_87078634==0) //condition\_statement\_if\_they\_have\_common\_factor

{

hcf\_87078634=n\_87078634;

}

else if (n\_87078634==number\_1\_87078634 || n\_87078634==number\_2\_87078634 )

{

break;//breaks\_the\_loop\_when\_reached\_max\_count;

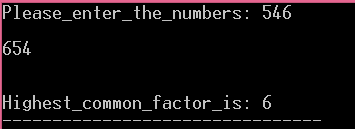
}

n\_87078634=n\_87078634+1;//every\_time\_it\_adds\_one\_value\_if\_conditions\_did\_not\_meet

}

cout<<endl<<"Highest\_common\_factor\_is: "<<hcf\_87078634;

return 0;}



54. //54

#include <iostream>

using namespace std;

int main ()

{

int number\_87078634, sum\_87078634;

cout<<"enter\_the\_number: ";

cin>>number\_87078634;

cout<<endl;

while (number\_87078634>0)

{

sum\_87078634+=number\_87078634; //calculates\_the\_sum;

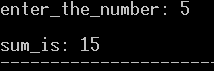
number\_87078634=number\_87078634-1; //every\_step\_substracts\_one

}

cout<<"sum\_is: "<<sum\_87078634;

return 0;

}



55.

#include <iostream>

using namespace std;

int main ()

{ double x\_87078634=0, y\_87078634, count=0; //\_double\_type\_declaration;

while (x\_87078634>=-10 && x\_87078634<10) {

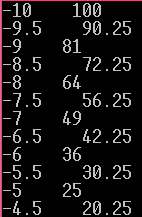
x\_87078634=-10+count;

count=count+0.5;

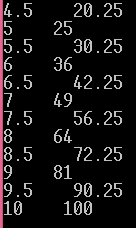
y\_87078634=x\_87078634\*x\_87078634; //calculation\_of\_y;

cout<<x\_87078634<<" "<<y\_87078634<<endl;}

return 0;}



….



56.

#include <iostream>

using namespace std;

int main ()

{ const int length\_8634=10;

int a\_8634[length\_8634];

for (int i8634=0; i8634<10; ++i8634) //first\_for\_loop\_for\_array\_data\_input;

{cout <<"Please\_enter\_the\_index "<<i8634<<": ";

cin>>a\_8634[i8634];

}

for (int i8707=0; i8707<10; ++i8707) //second\_for\_loop\_for\_defining\_tripple\_sums;

{

int l\_8634=i8707+1; //starts\_from\_the\_beginning;

int r\_8634=length\_8634-1; //starts\_from\_the\_end\_of\_the\_array

while (r\_8634>l\_8634)

{ //condition\_if\_to\_check\_every\_time\_the\_tripple\_sum;

if (a\_8634[r\_8634]+a\_8634[l\_8634]+a\_8634[i8707]==0)

{

cout<<endl<<a\_8634[i8707]<<" "<<a\_8634[r\_8634]<<" "<<a\_8634[l\_8634];

}

if (a\_8634[r\_8634]+a\_8634[l\_8634]+a\_8634[i8707]>0)

{ r\_8634=r\_8634-1;} //

else

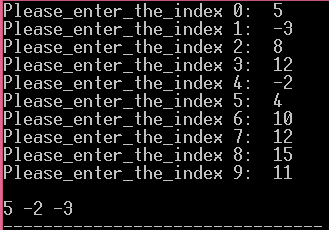
{l\_8634=l\_8634+1;}

}

}

return 0;

}



57. //57

#include <iostream>

using namespace std;

int main ()

{ int num\_87078634; //input\_number;

cout<<"Enter\_the\_number: ";

cin>>num\_87078634;

cout<<endl<<"Collatz\_sequense\_is: \n";

while (num\_87078634>0) {

if (num\_87078634%2==0){ //if\_condition\_for\_even\_numbers;

num\_87078634=num\_87078634/2;

cout<< num\_87078634<<endl;

}

if (num\_87078634==1){ //when\_the\_number\_will\_be\_1\_the\_loop\_will\_break;

break;

}

if (num\_87078634%2!=0){ //if\_codition\_for\_odd\_numbers;

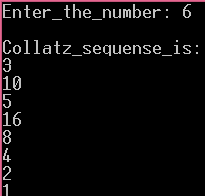
num\_87078634=3\*num\_87078634+1;

cout<< num\_87078634<<endl;

}

}

return 0;}



58.

#include <iostream>

using namespace std;

int main ()

{ int num\_87078634=1; //value\_declaration;

for (int i\_8634=0; i\_8634<20; ++i\_8634)

{cout<<num\_87078634; //displaying\_results;

if (num\_87078634%2==0) //condition\_for\_even\_numbers\_between\_1\_and\_20

{ cout<<" <"<<endl;}

else

{ cout<<endl; }

num\_87078634=num\_87078634+1; //increment\_till\_20;

}

return 0;}

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59.

//59

#include <iostream>

using namespace std;

int main ()

{ double x\_87078634=0, count=0; //\_double\_type\_declaration;

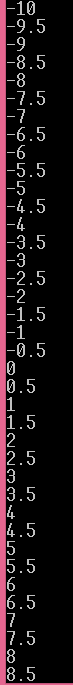
while (x\_87078634>=-10 && x\_87078634<10) {

x\_87078634=-10+count;

count=count+0.5;

cout<<x\_87078634<<endl;}

return 0;}



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60.

//60

#include <iostream>

#include <cmath>

using namespace std;

int main ()

{ int num\_87078634=100; //declare\_armstrong\_number;

int a\_87078634, b\_87078634, c\_87078634, armstrong\_87078634;

cout<<"Output\_is: \n";

for (int i\_8634=1; i\_8634<900; ++i\_8634)

{

a\_87078634=num\_87078634%10; //the\_last\_digit

b\_87078634=((num\_87078634-a\_87078634)%100)/10; //the\_second\_digit;

c\_87078634=((num\_87078634-a\_87078634-b\_87078634\*10))/100; //the\_first\_digit;

armstrong\_87078634=pow(a\_87078634,3)+pow(b\_87078634,3)+pow(c\_87078634,3);

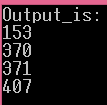
if (armstrong\_87078634==num\_87078634){

cout<<num\_87078634<<endl;

}

num\_87078634=num\_87078634+1; //adds\_values\_for\_each\_loop;

}return 0;}



61. //61

#include <iostream>

using namespace std;

int main ()

{int a8634=0, b8634=0, c8634=0, d8634=0;

cout<<"The\_output\_numbers\_are: ";

for (int i8634=0; i8634<45; ++i8634)

{

a8634=a8634+1; //I\_define\_the\_first\_number;

b8634=a8634+4; //I\_define\_the\_second\_number;

c8634=a8634/2+1; //I\_define\_the\_third\_number;

d8634=c8634\*4; //I\_define\_the\_fourth\_number;

if (a8634+b8634+c8634+d8634==45)

{cout<<a8634<<" "<<b8634<<" "<<c8634<<" "<<d8634<<endl;}

}return 0;}

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62.

//62

#include <iostream>

using namespace std;

int main ()

{

int num8634=0, num\_28634=0, num\_38634=0, num\_48634=0;

for (int i8634=0; i8634<6; ++i8634) //\_first\_for\_loop

{

cout<<"("<<num\_28634<<" "<<num8634<<") "; //starts\_from\_value\_(0\_0);

num8634=num8634+1;

}

num\_28634=1; //in\_order\_to\_start\_the\_next\_row\_with\_value\_1;

for (int j8634=0; j8634<5; ++j8634) //second\_for\_loop;

{

num\_48634=num\_48634+1;

cout<<endl<<"("<<num\_48634<<" "<<num\_38634<<") ";

num8634=1;

for (int i8634=0; i8634<5; ++i8634) //third\_loop\_inside\_second

{

cout<<"("<<num\_28634<<" "<<num8634<<") ";

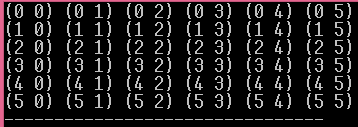
num8634=num8634+1;

}

num\_28634=num\_28634=num\_28634+1;

}

return 0;}



63.

#include <iostream>

using namespace std;

int main ()

{

int num8634=1, n8634; //n8634\_is\_the\_stored\_value\_for\_"-"\_sign

n8634=4;

int h8634=1; //stored\_value\_for\_the\_amount\_of\_displayed\_numbers;

for (int j8634=0; j8634<5; ++j8634) //first\_for\_loop\_for\_number\_of\_lines;

{

for (int i8634=n8634; i8634>0; --i8634) //for\_loop\_for\_the\_number\_of\_"-"\_signs;

{

cout<<"-";}

for(int k8634=0; k8634<h8634; ++k8634) //for\_the\_number\_of\_displayed\_numbers;

{cout<<num8634;

}

h8634=h8634+2;

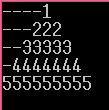
num8634=num8634+1;

cout<<endl;//from\_here\_starts\_new\_line;

n8634=n8634-1;

}

return 0;}



64.

#include <iostream>

using namespace std;

int main ()

{

int num87078634, h8634=1 ; //stored\_value\_of\_input\_number;

//value\_h8634\_is\_for\_storage\_of\_number\_of\_"-"\_signs\_for\_each\_line

cout<<"Please\_enter\_the\_number\_N: ";

cin>>num87078634; //input\_store

int e8634=num87078634-1; //I\_stored\_the\_value\_of\_entered\_number\_minus\_1;

cout<<endl;

for(int z8634=0; z8634<num87078634; ++z8634 ) //for\_displaying\_first\_line;

{

cout<<"\*";

}

cout<<endl;

for (int f8634=0; f8634<num87078634-1; ++f8634) //for\_displaying\_the\_rest\_lines;

{

for (int i8634=0; i8634<h8634;++i8634 )

{

cout<<"-";

}

for (int d8634=e8634; d8634>0; --d8634)

{

cout<<"\*";

}

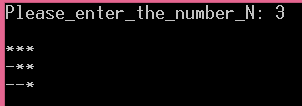
cout<<endl;

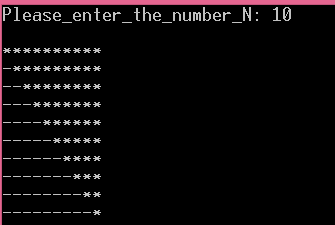
h8634=h8634+1; //every\_step\_increases;

e8634=e8634-1; //every\_step\_decreases;

}

return 0;}





65.

#include <iostream>

using namespace std;

int main ()

{

int num8634, n8634, d8634=1; //n8634\_is\_the\_stored\_value\_for\_"-"\_sign

n8634=4;

int h8634=1; //stored\_value\_for\_the\_amount\_of\_displayed\_numbers;

for (int j8634=0; j8634<5; ++j8634) //first\_for\_loop\_for\_number\_of\_lines;

{

for (int i8634=n8634; i8634>0; --i8634) //for\_loop\_for\_the\_number\_of\_"-"\_signs;

{

cout<<"-";}

num8634=d8634;

for(int k8634=0; k8634<h8634; ++k8634) //for\_the\_number\_of\_displayed\_numbers;

{cout<<num8634;

num8634=num8634-1; //the\_numbers\_decrease\_till\_1\_in\_the\_middle

}

if (h8634!=1) //skips\_the\_first\_line\_

{num8634=num8634+1;

for(int s8634=0; s8634<h8634-1; ++s8634) //loop\_for\_the\_half\_of\_the\_pyramid;

{ num8634=num8634+1; //the\_numbers\_increase\_till\_the\_returning\_to\_previous\_value;

cout<<num8634;

}

}

h8634=h8634+1;

d8634=d8634+1;

cout<<endl;//from\_here\_starts\_new\_line;

n8634=n8634-1;

}

return 0;}

