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```
cin>>i>> j;
while( i< j)
cout<<<i* j;
i++;
```

c) Given the following for loop:
constint $N=25$;
for (int $I=0$, sum $=0 ; I<N ; I++$ )
sum $+=$ I;
cout<<sum;

Write the equivalent do..while loop for the above code.
d) What is the output of the program segment below:
int $x=0$;
if (! x)
cout<< "Was equal $\backslash n "$ ";
else
cout<< "Not equal"; cout<< " Well Done";
e) What will be the output produced by the following code :
for ( $I=10 ; I<=50 ; I+=10$ )
$j=I / 2$;
cout $\ll j \ll "$ ";
(F) What will be the output produced by the following code :
int $f=1, I=2$;
do \{
$f^{*}=I ;$
\} while(++ $I<5$ );
cout $\ll$ f;

Q5. a) Write a C++ Program that prints 1248163264128.
b) Write a program to generate divisor of an integer.
c) Evaluate the following arithmetic expression:
a. int $\mathrm{I}=12, \mathrm{~J}=20, \mathrm{~K}=7$, Result;
b. Result $=6$ * $((\mathrm{I} \% 5)$ * $(9+(\mathrm{J}-3) /(\mathrm{K}+1)))$;
d) In the following program, if the value of N given by the user is 20, what
maximum and minimum values the program could possibly display?

```
#include <iostream.h>
#include <stdlib.h>
void main()
{
intN,Guessnum;
randomize();
cin>>N;
Guessnum=random(N-10)+10;
cout<<Guessnum<<endl;
}
```

e) What is the difference between Local Variable and Global Variable? Also give 3 suitable $\mathrm{C}++$ code to illustrate both.
Q 6.
a) Find the Output of the following:
void Line( ) //Function (i)
\{
for (int $L=1$; $L<=80$; $L++$ ) cout<<"-";
cout<<endl;
\}
void Line(int N) //Function (ii)
\{
for (int $L=1 ; L<=N ; L++$ ) cout $\ll " * "$
cout<<endl;
\}
void Line(char $C, \operatorname{int} N$ ) //Function (iii)
\{
for (int $L=1 ; L<=N ; L++$ ) cout $\ll C$;
cout<<endl;
\}
void Line(int $M, \operatorname{int} N$ ) //Function (iv)
\{
for(int $L=1 ; L<=n ; L++$ ) cout $\ll M^{*} L$;
cout<<endl;
\}
void main()

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```
{
int A=9,B=4,C=3;
char K='#';
Line(K,B);
Line(A,C);
}
```

b) Write a program to print the Cube of a given number using function only.
c) Write a C++ statement to create an array names grade to store the following 1 elements: $100,200,450,550,580,700$
d) Consider the following array declarations:
int X[5][50];
long Y[5][10];
(i) Find the number of elements in each array.
(ii) Find the total number of bytes required to store each array
e) Find the output of the following program assuming all the required header files have been included:

```
#include <iostream.h>
void ChangeIt(char Str[ ])
{
for (int L=0;Str[L]!='\0'; L++);
for (int C=0;C<L/2;C++)
if(Str[C]=='A' || Str[C]=='E')
Str[C]='#';
                else
            {
        char Temp = Str[C];
Str[C] = Str[L-C-1];
Str[L-C-1] = Temp;
}
}
void main()
{
char Text[]="RajDhani";
ChangeIt(Text);
cout<<Text<<endl;
}
```

a) Write a program to print left and right diagonal element of an NxN matrix.

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```
b) Rewrite the following program after removing the syntactical errors (if any).
Underline each correction.
#include <iostream.h>
struct Pixels
{ int Color,Style;}
void ShowPoint(Pixels P)
{ cout<<P.Color,P.Style<<endl;}
void main()
{
            Pixels Point1=(5,3);
            ShowPoint(Point1);
            Pixels Point2=Point1;
            Color.Point1+=2;
            ShowPoint(Point2);
    }
c) Give the output of the following program:
                    #include <iostream.h>
                    struct Point
{ int X,Y; };
void Show (Point P)
{ cout<<P.X<<':'<<P.Y<<endl;
}
void main()
{ Point U = {20,10},V,W;
    V=U;
    V.X += 20;
    W=V;
    U.Y += 10;
    U. X +=5;
    W.X- = 5;
    Show(U);
    Show(V);
    Show(W);
    }
```

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