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Q.1 (a)

Ans:

```
#include <iostream>
using namespace std;
int main()
{
    double a;
    cout << "Enter an integer:";
    cin >> a;
    cout << "Square of integer is:
    " << a * a;
}
```

output:

Enter an integer: 8

Square of integer is: 64

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Q:1 (b)

Ans:

```
#include <studio.h>
```

```
void main ( )
```

```
{
```

```
int i, j, rows, columns;
```

```
printf ("Enter number of rows &  
columns: ");
```

```
scanf ("%d %d", &rows, &columns);
```

```
int a[rows][columns], b[rows][columns],  
c[rows][columns];
```

```
printf ("Enter first matrix: \n");  
for (i=0; i<rows; i++)
```

```
{
```

```
for (j=0; j<columns; j++)
```

```
{
```

```
scanf ("%d", &a[i][j][k]);
```

```
}
```

```
}
```

```
printf ("\n Enter second matrix: \n");  
for (i=0; i<rows; i++)
```

```
{
```

```
printf ("\n Enter sec
```

```
for (j=0; j<columns; j++)
```

```
{
```

```
scanf ("%d", &b[i][j][k]);
```

```
}
```

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```
}
```

```
printf ("In the sum of two  
matrixess will be : \n");
```

```
for (i=0; i<rows; i++)
```

```
{
```

```
for (j=0; j<columns; j++)
```

```
{
```

```
printf ("%d", a[i][j][k] + b[i]  
[j][k] + c[i][j][k]);
```

```
}
```

```
printf ("\n");
```

```
}
```

output:

Enter first matrix =

1	0	1
0	2	1
0	1	1

Enter 2nd matrix =

1	2	2
3	4	1
1	0	0

The sum of Two matrices =

2	2	3
3	6	2
1	1	1

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Q.2 (C++)

Ans:

```
#include <iostream>
using namespace std;
int main()
{
    for (int a = -5; a <= 5; a++)
    {
        cout << 2 * a * a * -3 * a << ", ";
    }
}
```

output:

65, 44, 27, 14, 5, 0, -1, 2, 9, 20

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Q:2 (b)

Ans:

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

```
int main()
```

```
{
```

```
int n, i, sum;
```

```
i = 1, sum = 0;
```

```
printf ("Enter maximum value (10):");
```

```
scanf ("%d", &n);
```

```
while (i <= n)
```

```
{
```

```
sum = sum + i * i;  
++i;
```

```
}
```

```
printf ("Sum of squares of  
numbers from 1 to 10 is  
: %d ", sum);
```

```
} }
```

output:

Enter maximum value : 10
Sum of squares of numbers
from 1 to 10 is : 385

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Q:3

Ans:

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
int a;
```

```
cout << "Enter a positive integer:";
```

```
cin >> a;
```

```
if (a >= 0)
```

```
{
```

```
cout << a << " = ";
```

```
for (int i = a; i > 0; i--)
```

```
{ cout << i << " , ";
```

```
}
```

```
}
```

```
else {
```

```
cout << "In the integer is  
not positive";
```

```
}
```

```
}
```

output: Enter a positive integer: 11
11 = 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1

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Q:4 (a)

Correct Coding:-

Ans:-

```
#include <iostream>
#include <math.h>
using namespace std;
```

```
int main ()
```

```
{
```

```
{
```

```
int n;
```

```
while (n >= 0)
```

```
{
```

```
cout << n * n << "\n";
```

```
-- n;
```

```
}
```

```
cout << n << "\n";
```

```
while (n < 4)
```

```
{
```

```
cout << n++ << "\n";
```

```
cout << n << "\n";
```

```
}
```

```
while (n >= 0)
```

```
{
```

```
cout << n << "\n";
```

```
}
```

```
}
```

```
}
```

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Q: 4 (b)

Ans

output:

9

4

1

0

-1

-1

0

1

2

3

4