

OPERATING SYSTEM LAB TASK – 01

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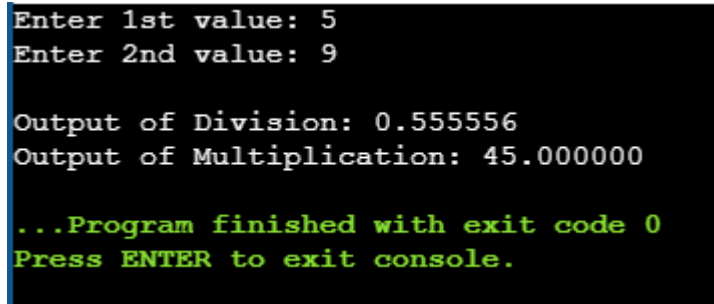
S.ID: 11070

QUESTION – 1

CODE:

```
#include <stdio.h>
#include <conio.h>
int main()
{
    float n1,n2,divi,mul;
    printf("Enter 1st value: ");
    scanf("%f", &n1);
    printf("Enter 2nd value: ");
    scanf("%f", &n2);
    divi = n1/n2;
    mul = n1*n2;
    printf("\nOutput of Division: %f",divi);
    printf("\nOutput of Multiplication: %f",mul);
    return 0;
}
```

OUTPUT:



```
Enter 1st value: 5
Enter 2nd value: 9

Output of Division: 0.555556
Output of Multiplication: 45.000000

...Program finished with exit code 0
Press ENTER to exit console.
```

QUESTION – 2

CODE:

```
#include <stdio.h>
#include <conio.h>
int main()
{
    printf("Output: \n\n");
    for(int i=1; i<=5; i++)
    {
        for(int j=i; j<5; j++)
        {
            printf(" ");
        }
        for(int j=1; j<=i; j++)
        {
            printf("*");
        }
        printf("\n");
    }
    return 0;
}
```

OUTPUT:



Output :

```

      *
     **
    ***
   ****
  *****
```

QUESTION – 3

CODE:

```
{
    int a[20][20], b[20][20], c[20][20], m[20][20];
    int r1, c1, r2, c2, i, j, k;
    printf("Enter order of 1st Matrix: ");
    scanf("%d %d", &r1, &c1);
    printf("Enter order of 2nd Matrix: ");
    scanf("%d %d", &r2, &c2);
    printf("Enter elements of 1st Matrix: ");
    for(i=0; i<r1; i++)
    {
        for(j=0; j<c1; j++)
        {
            scanf("%d", &a[i][j]);
        }
    }
    printf("Enter elements of 2nd Matrix: ");
    for(i=0; i<r2; i++)
    {
        for(j=0; j<c2; j++)
        {
            scanf("%d", &b[i][j]);
        }
    }
    for(i=0; i<r1; i++)
    {
        for(j=0; j<c2; j++)
        {
            m[i][j] = 0;
            for(k=0; k<r2; k++)
            {
                c[i][j]=c[i][j] + a[i][k] * b[k][j];
            }
        }
    }
    printf("Resultant Matrix:\n");
    for(i=0; i<r1; i++)
    {
        for(j=0; j<c2; j++)
        {
            printf("  %d\t", c[i][j]);
        }
    }
```

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

OUTPUT:

```
Enter order of 1st Matrix: 2 2  
Enter order of 2nd Matrix: 2 2  
Enter elements of 1st Matrix: 1 3 5 7  
Enter elements of 2nd Matrix: 2 4 6 8  
Resultant Matrix:  
    20    28  
    52    76
```