

COURSE DETAILS

COURSE TITTLE :- PROGRAMMING FUNDAMENTAL

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STUDENT DETAILS

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Q1 :-

(a)

Code a function that will return square of any integer number.

```
using namespace std;
```

int main()

```
{
```

```
double a;
```

```
cout<<"inter an integer:";</pre>
```

cin>>a;cout<<"\nsquare of integer is:" <<a*a;

```
C:\Users\HP\Desktop\square.exe
Inter an integer:4
square of integer is: 16
Process exited after 1.436 seconds with return value 0
Press any key to continue . . .
```

Q1:-

(b)

Code a program where you input two 3x3 matrices from user and output the sum in matrix form.

include L stolio. h> void maine) int i, j, rows, columns; print ("Enter number of rows and column" Scanf (" % d % d, and rows, and colums); int a [rows] // [columns], b [rows] [colums] Print f["Enter first matrix: (n"); for (i=0; i< row; i++) for (j=0; j 2 columns; j ++) Scanf (" % d", and a [i][j]; Print f ("In Enter second motin's: (n"); for (i=ø; i <rows; itt) for $(j = \emptyset', j \in columns', j + t)$ scanf ("% of and b[i][j]);

print f ["In Enter third matrix: ") for (i= p; il rows; i++) for (j=0; j(columns; j++) scant (""d", and c [i][j]): print f ("In the sum of three matrices will be: n''); for $(i=\phi; i \leq xows; i++)$ for (j=ø; jc columns; j++) print (" $q_0 d$ ", a(i)(j) + b(i)(dj (j) + c(i)(j); print f ("|n");

Q2:- (a)

Code a program to get the following series 65, 44, 27, 14, 5, 0, -1, 2, 9, 20. Hint: The series is created by the formula $2x^2 - 3x$ with x=-5 to 4.

```
#include<iostream>
```

```
using namespace std;
```

int main()

```
{
    for(int a=-5; a<5;a++){
        cout<<2*a*a-3*a<<",";
    }
}</pre>
```

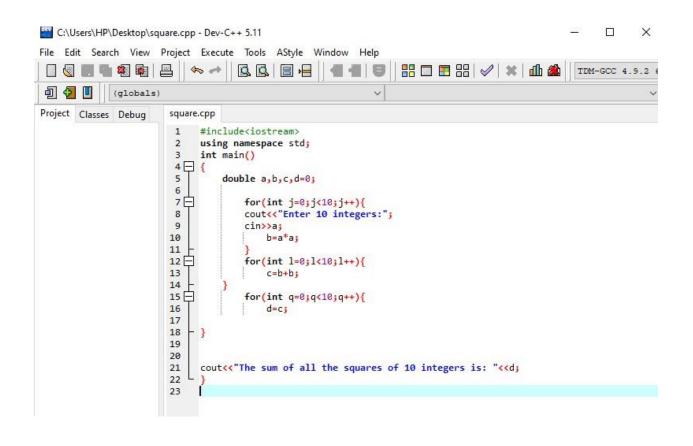
C:\Users\HP\Desktop\square.exe

55,44,27,14,5,0,-1,2,9,20,

Process exited after 0.07778 seconds with return value 0 Press any key to continue . . .

Q2:- (b)

Code the following scenario, input 10 numbers from the user and take the sum of squares of each number stored in the array. Display the answer at end.



Enter	10	integers:2
Enter	10	integers:2
The su	um (of all the squares of 10 integers is: 8
Proces	55 (exited after 5.122 seconds with return value 0
		/ key to continue

Q3 (a)

Code a function that reads a non-negative number (for example 8) and prints it in the following manner. 8 = 8, 7, 6, 5, 4, 3, 2, 1

```
#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<<"\nThe integer is not positive";</pre>
```

C:\Users\HP\Desktop\square.exe

}

}

enter a positive integer: 23 23=23,22,21,20,19,18,17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1,

Process exited after 7.411 seconds with return value 0 Press any key to continue . . .

Q4:- A

Qu y A part # include ciostream> Using namespace std; int main() int n; While (n>=0) { cout is no c'iln"; --n; 3: Cout cence "In" while (n < 4) { Cout ccn + t < c'' 1n'';Cout $ccn < c'' t \cdot 1n'';$ while (n > = 0)Cout «ene«"In";

Q4 (b)

C:\Users\HP\Desktop\square.exe

9 4 1 0 -1 -1 1 2 3 4 Process exited after 0.08674 seconds with return value 0 Press any key to continue . . .