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I.D 13045

Subject Programing Fundamental

Summer 2020

Intro TO : Sir Waqas Khan

Darsi Notes

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pg 1

Q1:-

part (a) :: Code a function that will return square of any integer number?

Answer:

```
#include <iostream>
```

```
using namespace std;
```

```
int square (int y) {
```

```
    return y*y;
```

```
}
```

```
int main () {
```

```
    int x, ans;
```

```
    cout << "Enter any Integer Number:";
```

```
    cin >> x;
```

```
    ans = square (x);
```

```
    cout << ans << endl; }
```

Q1

part (b):- Code a program where you input two 3x3 matrices from user and output the sum in matrix form.

```
# include < Stdio.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
```

```
c [rows] [columns];
```

```
printf ("Enter first matrix:\n");
```

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

```
{
```

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

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

```
}
```

```
}
```

```
printf ("\n Enter Second matrix: \n");
```

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

```
{
```

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

```
{
```

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

```
}
```

```
}
```

```
printf ("\n Enter Third matrix: \n");
```

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

```
i
```

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

```
{
```

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

```
}
```

```
}
```

```
printf ("\n The Sum of Three matrices will be:\n");
```

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

```
{
```

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

```
{
```

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

```
}
```

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

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PG (5)

Q 2:-

part (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

Answer:-

```
# include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
for (int a = -5; a < 5; a++) {
```

```
cout <<  $2*a*a - 3*a$  << " ";
```

```
}
```


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PG (6)

Q2

part (b):- Code The following scenario
input 10 numbers from the users
& take the sum of squares of
each number selected in the array
Display the answer at end-

```
# include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
double a, b, c, d = 0;
```

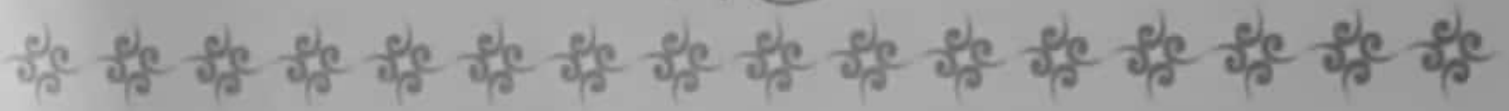
```
for (int j = 0; j < 10; j++) {
```

```
cout << "Enter 10 integers:";
```

```
cin >> a;
```

```
b = a * a;
```

```
} return
```



```
for (int i = 0; i < 10; i++) {
```

```
    c = b + b;
```

```
}
```

```
for (int q = 0; q < 10; q++) {
```

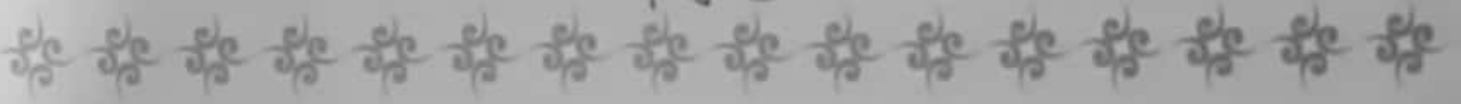
```
    d = c;
```

```
}
```

```
cout << "The Sum of all the squares of
```

```
10 integers is: " << d;
```

```
}
```

Q3:- Code a function that reads a non-negative number (e.g. 8) & print its in the following manner. 8 = 8, 7, 6, 5, 4, 3, 2, 1 ?

Answer:

```
# 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 << ", ";
```

```
}
```

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Pg (9)



}

else {

cout << "\n the integer is not positive";

}

}

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Pg (10)

Q4:-

part (a) Identify errors in the following codes if any

Answer:

```
#include <iostream>
```

```
#include <math.h>
```

```
using namespace std;
```

```
int main() {
```

```
{
```

```
int n;
```

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

```
cout << n * n << " | n";
```

```
-- n;
```

```
};
```

```
cout << n << " | n";
```

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Q No (4)

Part (a) :-

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

```
    cout << n++ << " | n";
```

```
    cout << n << " | n";
```

```
}
```

```
while (n > 0) {
```

```
    cout << n << " | n";
```

```
}
```

```
}
```

```
}
```

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Pg (12)

Q 4

part (b):-

Determine the output of the following code?

Output result:-

9

4

1

0

~~-1~~

-1

0

1

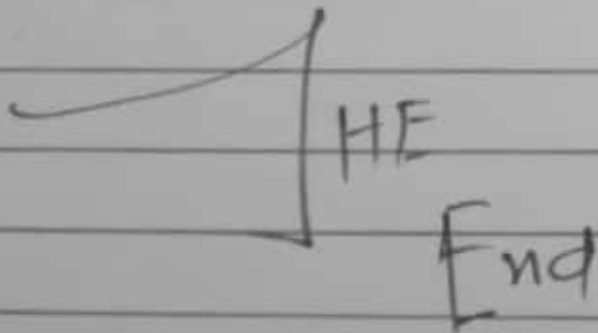
2

3

4

Pg (13)

process exited after 0.08674 Seconds
with return value 0 & press any key To Continue.



HE
End