

Programming I – Assignment 06

Functions

#	Student ID	Student Name	Grade (10)
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Delivery Date	
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١. يتم تسليم التمرين محلولا في خلال أسبوعا من تاريخ التمرين، و يتم حذف درجتين من التمرين عن كل أسبوع تأخير
٢. يتم التسليم لمعيد المقرر مباشرة
٣. تتم أجابه التمرين في نفس ورق الأسئلة

Highlight the box that contains the correct answer

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#	Question
1	<p>The keyword used to transfer control from a function back to the calling function is</p> <p>A. switch B. goto C. go back D. return</p>
2	<p>How many times the program will print "EgyptBix" ?</p> <pre>#include<stdio.h> int main() { printf("EgyptBix"); main(); return 0; }</pre> <p>A. Infinite times B. 32767 times C. 65535 times D. will not run at all</p>
3	<p>What will be the output of the program in 16 bit platform (Turbo C under DOS)?</p> <pre>#include<stdio.h> int main() { int fun(); int i; i = fun(); printf("%d\n", i); return 0; } int fun() { _AX = 1990; }</pre>

	<p>A. Garbage value B. 0 (Zero) C. 1990 D. No output</p>
4	<p>What will be the output of the program?</p> <pre>#include<stdio.h> void fun(int*, int*); int main() { int i=5, j=2; fun(&i, &j); printf("%d, %d", i, j); return 0; } void fun(int *i, int *j) { *i = *i**j; *j = *j**j; }</pre> <p>A. 5, 2 B. 10, 4 C. 2, 5 D. 25, 4</p>
5	<p>What will be the output of the program?</p> <pre>#include<stdio.h> int i; int fun(); int main() { while(i) { fun(); main(); } printf("Hello\n"); return 0;</pre>

	<pre> } int fun() { printf("Hi"); } </pre> <p>A. Hello B. Hi Hello C. No output D. Infinite loop</p>
6	<p>What will be the output of the program?</p> <pre> #include<stdio.h> int reverse(int); int main() { int no=5; reverse(no); return 0; } int reverse(int no) { if(no == 0) return 0; else printf("%d,", no); reverse (no--); } </pre> <p>A. Print 5, 4, 3, 2, 1 B. Print 1, 2, 3, 4, 5 C. Print 5, 4, 3, 2, 1, 0 D. Infinite loop</p>
7	<p>What will be the output of the program?</p> <pre> #include<stdio.h> int sumdig(int); int main() { </pre>

	<pre> int a, b; a = sumdig(123); b = sumdig(123); printf("%d, %d\n", a, b); return 0; } int sumdig(int n) { int s, d; if(n!=0) { d = n%10; n = n/10; s = d+sumdig(n); } else return 0; return s; } </pre> <p>A. 4, 4 B. 3, 3 C. 6, 6 D. 12, 12</p>
8	<p>What will be the output of the program?</p> <pre> #include<stdio.h> int main() { int fun(int); int i = fun(10); printf("%d\n", --i); return 0; } int fun(int i) { return (i++); } </pre>

	<p>}</p> <p>A. 9 B. 10 C. 11 D. 8</p>
9	<p>What will be the output of the program?</p> <pre>#include<stdio.h> int check (int, int); int main() { int c; c = check(10, 20); printf("c=%d\n", c); return 0; } int check(int i, int j) { int *p, *q; p=&i; q=&j; i>=45 ? return(*p): return(*q); }</pre> <p>A. Print 10 B. Print 20 C. Print 1 D. Compile error</p>
10	<p>What will be the output of the program?</p> <pre>#include<stdio.h> int main() { int i=1; if(!i)</pre>

	<pre>printf("EgyptBix,"); else { i=0; printf("C-Program"); main(); } return 0; }</pre> <p>A. prints "EgyptBix, C-Program" infinitely B. prints "C-Program" infinitely C. prints "C-Program, EgyptBix" infinitely D. Error: main() should not inside else statement</p>
11	<p>What will be the output of the program?</p> <pre>#include<stdio.h> int addmult(int ii, int jj) { int kk, ll; kk = ii + jj; ll = ii * jj; return (kk, ll); } int main() { int i=3, j=4, k, l; k = addmult(i, j); l = addmult(i, j); printf("%d %d\n", k, l); return 0; }</pre> <p>A. 12 12</p>



	<p>B. No error, No output C. Error: Compile error D. None of above</p>
12	<p>What will be the output of the program?</p> <pre>#include<stdio.h> int i; int fun1(int); int fun2(int); int main() { extern int j; int i=3; fun1(i); printf("%d,", i); fun2(i); printf("%d", i); return 0; } int fun1(int j) { printf("%d,", ++j); return 0; } int fun2(int i) { printf("%d,", ++i); return 0; } int j=1;</pre> <p>A. 3, 4, 4, 3 B. 4, 3, 4, 3 C. 3, 3, 4, 4 D. 3, 4, 3, 4</p>
13	<p>What will be the output of the program?</p>

	<pre>#include<stdio.h> int func1(int); int main() { int k=35; k = func1(k=func1(k=func1(k))); printf("k=%d\n", k); return 0; } int func1(int k) { k++; return k; } A. k=35 B. k=36 C. k=37 D. k=38</pre>
14	<p>what will be the output of the program?</p> <pre>#include<stdio.h> int addmult(int ii, int jj) { int kk, ll; kk = ii + jj; ll = ii * jj; return (kk, ll); } int main() { int i=3, j=4, k, l; k = addmult(i, j); l = addmult(i, j); printf("%d, %d\n", k, l);</pre>

	<pre>return 0; }</pre> <p>A. 12, 12 B. 7, 7 C. 7, 12 D. 12, 7</p>
15	<p>What will be the output of the program?</p> <pre>#include<stdio.h> int check(int); int main() { int i=45, c; c = check(i); printf("%d\n", c); return 0; } int check(int ch) { if(ch >= 45) return 100; else return 10; }</pre> <p>A. 100 B. 10 C. 1 D. 0</p>
16	<p>If int is 2 bytes wide. What will be the output of the program?</p> <pre>#include <stdio.h> void fun(char**); int main() { char *argv[] = {"ab", "cd", "ef", "gh"}; fun(argv); return 0;</pre>

	<pre> } void fun(char **p) { char *t; t = (p+= sizeof(int))[-1]; printf("%s\n", t); } </pre> <p>A. ab B. cd C. ef D. gh</p>
17	<p>What will be the output of the program?</p> <pre> #include<stdio.h> int fun(int(*)()); int main() { fun(main); printf("Hi\n"); return 0; } int fun(int (*p)()) { printf("Hello "); return 0; } </pre> <p>A. Infinite loop B. Hi C. Hello Hi D. Error</p>
18	<p>What will be the output of the program?</p> <pre> #include<stdio.h> int fun(int i) { i++; </pre>

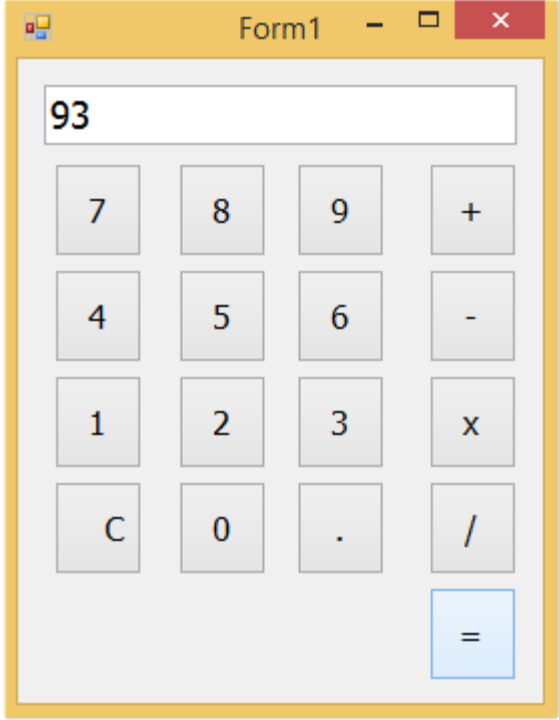


	<pre>return i; } int main() { int fun(int); int i=3; fun(i=fun(fun(i))); printf("%d\n", i); return 0; }</pre> <p>A. 5 B. 4 C. Error D. Garbage value</p>
19	<p>What will be the output of the program?</p> <pre>#include<stdio.h> int fun(int); int main() { float k=3; fun(k=fun(fun(k))); printf("%f\n", k); return 0; } int fun(int i) { i++; return i; }</pre> <p>A. 5.000000 B. 3.000000 C. Garbage value D. 4.000000</p>
20	<p>What will be the output of the program?</p> <pre>#include<stdio.h></pre>

	<pre>#include<stdlib.h> int main() { int i=0; i++; if(i<=5) { printf("EgyptBix"); exit(1); main(); } return 0; }</pre> <p>A. Prints "EgyptBix" 5 times B. Function main() doesn't calls itself C. Infinite loop D. Prints "EgyptBix"</p>
21	<p>Point out the error in the program</p> <pre>f(int a, int b) { int a; a = 20; return a; }</pre> <p>A. Missing parenthesis in return statement B. The function should be defined as int f(int a, int b) C. Redclaration of a D. None of above</p>
22	<p>Point out the error in the program</p> <pre>#include<stdio.h></pre>

	<pre>int main() { int a=10; void f(); a = f(); printf("%d\n", a); return 0; } void f() { printf("Hi"); }</pre> <p>A. Error: Not allowed assignment B. Error: Doesn't print anything C. No error D. None of above</p>
23	<p>Which of the following statements are correct about the program?</p> <pre>#include<stdio.h> int main() { printf("%p\n", main()); return 0; }</pre> <p>A. It prints garbage values infinitely B. Runs infinitely without printing anything C. Error: main() cannot be called inside printf() D. No Error and print nothing</p>
24	<p>There is a error in the below program. Which statement will you add to remove it?</p> <pre>#include<stdio.h></pre>

	<pre>int main() { int a; a = f(10, 3.14); printf("%d\n", a); return 0; } float f(int aa, float bb) { return ((float)aa + bb); }</pre> <p>A. Add prototype: float f(aa, bb) B. Add prototype: float f(int, float) C. Add prototype: float f(float, int) D. Add prototype: float f(bb, aa)</p>
25	<p>Which of the following statements are correct about the function?</p> <pre>long fun(int num) { int i; long f=1; for(i=1; i<=num; i++) f = f * i; return f; }</pre> <p>A. The function calculates the value of 1 raised to power num. B. The function calculates the square root of an integer C. The function calculates the factorial value of an integer D. None of above</p>

Q1	Build GUI calculator	
Sol 1		
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