

< دورات برمجة 1 >

في حال قمت بكل جميع تمارين الدورات بشكل صحيح تكون

نسبة حصولك على العلامة الكاملة 100%

محتوى الملف:

- 45 كود من أسئلة دورات المادة مع
تغيير بسيط في بعض التمارين.

تم تجميع الملف من قبل زملائكم: عبد الرحمن السيد و
آلاء خالد دعواتكم~

حروب واتس آب لمناقشة التملين والحلول:

<https://chat.whatsapp.com/IYrIIIomPay7SwQTD3kNtM>

-----< Question 1 >-----

```
static void Main(string[] args)
{
    for (int i = 0; i < 10; i++)
    {
        if (i < 5)
        {
            Console.WriteLine("i = " + i);
            i = i + 3;
        }
        else
        {
            i++;
        }
        Console.WriteLine("i = " + i);
    }
}
```

- | | | | |
|----------|----------|----------|----------|
| 1- i = 0 | 2- i = 0 | 3- Other | 4- Error |
| i = 3 | i = 3 | | |
| i = 4 | i = 4 | | |
| i = 7 | i = 7 | | |
| i = 8 | i = 9 | | |

Correct answer number 2

-----< Question 2 >-----

```
static void Main(string[] args)
{
    int a = 1, b = 1;
    while (a <= 100)
    {
        b = b * a++;
        a = a * 5;
        Console.Write(b + " " + a);
    }
}
```

1- 1 1010 55550 280

2- 1 1010 55550 288

3- Other

4- Error

Correct answer number 1

-----< Question 3 >-----

```
static void Main(string[] args)
{
    int count = 0, i = 13;
    while (count <= i)
    {
        if (count % 4 == 0 && count > 4)
        {
            break;
        }
        Console.WriteLine("count : " + count);
        count++;
    }
}
```

1- count : 0	2- count : 0	3- Other	4- Error
count : 1	count : 1		
count : 3	count : 2		
count : 5	count : 3		
count : 7	count : 4		
	count : 5		
	count : 6		
	count : 7		

Correct answer number 2

-----< Question 4 >-----

```
static void Main(string[] args)
{
    double j = 0;
    for (double i = 0; i <= 2; i++)
    {
        j = i + 1;
        i = i + 0.5;
    }
    Console.WriteLine(j);
}
```

1- 2.25 2- 2.5 3- Other 4- Error

Correct answer number 2

-----< Question 5 >-----

```
static void Main(string[] args)
{
    int n = 123;
    int d;
    while (n > 0)
    {
        d = n % 10;
        n = n / 10;
        Console.Write(d);
    }
}
```

1- 1.23 2- 321 3- Other 4- Error

Correct answer number 2

-----< Question 6 >-----

```
static void Main(string[] args)
{
    for (int i = 0; i <= 13; i++)
    {
        if (i % 2 == 0 || i > 6)
        {
            continue;
        }
        Console.WriteLine("i = " + i);
    }
}
```

- | | | | |
|----------|----------|----------|----------|
| 1- i = 1 | 2- i = 2 | 3- Other | 4- Error |
| i = 3 | i = 4 | | |
| i = 5 | i = 6 | | |

Correct answer number 1

-----< Question 7 >-----

```
static void Main(string[] args)
{
    int i, j = 1, k;
    for (i = 0; i < 5; i++)
    {
        k = j++ + ++j;
        Console.Write(k + " ");
    }
}
```

1- 4 8 12 16 20

2- 4 8 12 16

3- Other

4- Error

Correct answer number 1

-----< Question 8 >-----

```
static void Main(string[] args)
{
    int x = 20, y = 0, z = 0;
    for (int i = 6; i < x; i++)
    {
        if (i % 2 == 0)
        {
            z = z + i;
        }
        else
        {
            y = y + i;
        }
    }
    Console.WriteLine(z + ":" + y);
}
```

1- 84:91

2- 80:72

3- Other

4- Error

Correct answer number 1

-----< Question 9 >-----

```
static void Main(string[] args)
{
    int x = 0, y = 15, z;
    while (x != y)
    {
        if (x > y)
        {
            x = x - y;
        }
        else
        {
            y = y - x;
        }
        z = x;
        Console.WriteLine(z);
    }
}
```

1- 0

2- infinty Loop

3- Other

4- Error

Correct answer number: 2

-----< Question 10 >-----

```
static void Main(string[] args)
{
    int n = (int)'A';
    int k;
    k = n;
    while (k <= n + 3)
    {
        Console.Write((char)k + ",");
        k = k + 2;
    }
}
```

1- A,C,

2- A,B,

3- Other

4- Error

Correct answer number: 1

-----< Question 11 >-----

```
static void Main(string[] args)
{
    for (int i = 65; i < 68; i++)
    {
        Console.Write((char)i + ",");
    }
}
```

1- A,B,C,

2- 65,66,67,

3- Other

4- Error

Correct answer number: 1

-----< Question 12 >-----

```
static void Main(string[] args)
{
    int x = 4;
    int y = 2;
    int z;
    z = y-- * ++x;
    Console.Write(x + ":" + y + ":" + z);
}
```

1- 5:10:1

2- 5:1:10

3- Other

4- Error

Correct answer number: 2

-----< Question 13 >-----

```
static void Main(string[] args)
{
    int i, j = 0;
    for (i = 0; i < 11; i++)
    {
        for (j = 0; j < 5; j++)
        {

        }
    }
    Console.WriteLine(i + ":" + j);
}
```

1- 11:6

2- 10:5

3- Other

4- Error

Correct answer number: 1

-----< Question 14 >-----

```
static void Main(string[] args)
{
    int i = 5;
    int l = ++i;
    int x = i++;
    Console.Write(i + ":" + l + ":" + x);
}
```

1- 6:6:5

2- 7:6:6

3- Other

4- Error

Correct answer number: 2

-----< Question 15 >-----

```
static void Main(string[] args)
{
    Random rnd = new Random();
    for (int i = 0; i <= 7; i++)
    {
        Console.Write(rnd.Next(16) + " ")
    }
}
```

1- 1 2 3 4 15 6 5 12

2- Other

3- 5 4 8 6 2 0 14 15

4- Error

Correct answer number: 1 and 2 and 3

-----< Question 16 >-----

```
static void Main(string[] args)
{
    int s, r, a, b, c, d;
    s = 9147;
    a = s % 10;
    b = s / 10 % 10;
    c = s / 100 % 10;
    d = s / 1000;
    r = a * 1000 + b * 100 + c * 10 + d;
    Console.Write(r + " ");

    a = (a + 4) % 10;
    b = (b + 4) % 10;
    c = (c + 4) % 10;
    d = (d + 4) % 10;
    r = d * 100 + c * 1000 + a * 10 + d;
    Console.WriteLine(r);
}
```

1- 7419 5314

2- 7419 5315

3- Other

4- Error

Correct answer number: 3

-----< Question 17 >-----

```
static void Main(string[] args)
{
    double s, b;
    s = 25000;
    if (s < 10000)
    {
        b = s * 0.10;
    }
    else if (s < 20000)
    {
        b = 1000 + (s - 10000) * 0.20;
    }
    else
    {
        b = 3000 + (s - 20000) * 0.30;
    }
    Console.WriteLine(b);
}
```

1- 4500

2- 450

3- Other

4- Error

Correct answer number: 1

-----< Question 18 >-----

```
static void Main(string[] args)
{
    int n, i, s;
    n = 4;
    s = 0;
    i = 1;
    while (i <= n)
    {
        s = s + i * i;
        i = i + 1;
        Console.Write(s + ",");
    }
    Console.WriteLine();
}
```

1- 0,5,14,30,

2- 1,5,14,30,

3- Other

4- Error

Correct answer number: 2

-----< Question 19 >-----

```
static void Main(string[] args)
{
    //input => : 4 , 2 , 3 , -1
    int tot, count, val;
    tot = count = val = 0;
    string str;
    do
    {
        tot += val;
        Console.WriteLine("Enter integer , -1 to Quit: ");
        str = Console.ReadLine(); val = int.Parse(str);
        count += 1;
    }while (val != -1);

    if (count != -1)
    {
        Console.WriteLine(((double)tot / (count -1)));
    }
}
```

1- 1

2- 4

3- Other

4- Error

Correct answer number: 3

-----< Question 20 >-----

```
static void Main(string[] args)
{
    int[] arr = new int[4];
    for (int i = 0; i <= 3; i++)
    {
        arr[i] = 6 / (i + 1);
    }
    for (int i = 0; i <= 3; i++)
    {
        Console.Write(arr[i] + ",");
    }
    Console.WriteLine(" ");
}
```

1- 6,3,2,1,

2- 6,3,2,

3- Other

4- Error

Correct answer number: 1



-----< Question 21 >-----

```
static void Main(string[] args)
{
```

```
    1- int INT = 4;
```

```
    2- int doubel = 5;
```

```
    3- int x-u = 6;
```

```
    4- int 3c = 10;
```

```
    5- long flot = 12;
```

```
}
```

line error:

1- 2, 5, 3

2- 1, 2, 3, 4, 5

3- Other

4- 1, 2

Correct answer number: 4



-----< Question 22 >-----

```
static void Main(string[] args)
{
    int s;
    int[] arr;
    for (s = 0; s < arr.Length; s++)
    {
        arr[s] = s;
    }
}
```

1- No things

2- 123456789

3- Other

4- Error

Correct answer number: 4

-----< Question 23 >-----

```
static void Main(string[] args)
{
    string s = "Ala'a";
    int sLength = s.Length;
    char[] tChar = new char[sLength];

    for (int i = 0; i < sLength; i++)
    {
        tChar[i] = s[sLength - 1 - i];
    }

    string str = "";
    for (int i = 0; i < sLength; i++)
    {
        str = str + tChar[i];
    }
    Console.WriteLine(str);
}

1- Ala'a                2- a'ala
3- Other                 4- Error
```

Correct answer number: 2

-----< Question 24 >-----

```
static void Main(string[] args)
{
    string[] arr = { "Abd", "Khaled", "Mohammad", "Ahmad" };
    for (int i = -1; i < arr.Length - 1; i++)
    {
        Console.Write(arr[i+1] + " ");
    }
}
```

1- Abd Khaled Mohammad Ahmad

2- Ahmad Mohammad Khaled Abd

3- Other

4- Error

Correct answer number: 1

-----< Question 25 >-----

```
static void Main(string[] args)
{
    int n = 20;
    p();
    pn();
    p();
    pnx();
    p();
}
static void p()
{
    Console.Write("in p()" + n);
}
static void pn()
{
    n = 5; Console.Write("in pn()" + n);
}
static void pnx()
{
    n = 15; x = 10; Console.Write("in pnx()" + n);
}
```

- | | |
|----------|----------|
| 1- 20 | 2- Error |
| 3- Other | 4- 25 |

Correct Answer Number: 2

-----< Question 26 >-----

```
static void Main(string[] args)
{
    int[] p = { 25, 55 };
    int[] x = { 35, 40 };
    bool b;
    for(int i = 0; i <= 1; i++)
    {
        b = (x[i] < 40 || (x[i] + p[i]) < 50);
        Console.Write(b + " ,");
    }
    Console.Write("\n");
}
```

1- True ,False,
3- Error

2- False ,True
4- Other

Correct Answer Number: 1

-----< Question 27 >-----

```
static void Main(string[] args)
{
    bool eq;
    int n = 3; int m = 4;
    eq = (k(n) + k(m) == k(n+m));
    Console.WriteLine(eq);
}
static int k(int a)
{
    int t = 4;
    return t * a;
}
```

- | | |
|----------|----------|
| 1- True | 2- False |
| 3- Error | 4- Other |

Correct Answer Number: 1

-----< Question 28 >-----

```
static void Main(string[] args)
{
    Console.Write(sn2(3) + ",");
    Console.WriteLine(sn2(4));
}
static int sn2(int n)
{
    return n * (n + 1) * (2 * n + 1) / 6;
}
```

1- 14,30

2- 3,4

3- 4,3

4- 30,4

Correct Answer Number: 1

-----< Question 29 >-----

```
static void main(string[] args)
{
    int[] Xam = { 60, 45, 55 };
    int[] Xpract = { 20, 10, 4 };
    int m = Xam.Length;
    bool[] Failu = { true, true, true };
    for(int i = 0; i <= m - 1; i++)
        if((Xam[i] >= 40) && (Xam[i] + Xpract[i] >= 60))
            Failu[i] = !true;
    for(int i = 0; i <= m - 1; i++)
        Console.WriteLine(Failu[i] + ",");
    Console.WriteLine();
}
```

- 1- True , False, False,
- 2- False , True , True,
- 3- False , True , True
- 4- False , False, False

Correct Answer Number: 2

-----< Question 30 >-----

```
static void main(string[] args)
{
    int[,] a =
    {
        { 1, 2, 3, 4 }, { 4, 3, 2, 1 }, { 2, 1, 4, 3 }
    };
    int sum = 0;
    for(int i = 0; i < 3; i++)
    {
        for(int j = 0; j < 3; j++)
        {
            if(a[i,j] > 2)
            {
                sum += a[i,j];
            }
        }
    }
    Console.WriteLine(sum);
}
```

1- 28	2- 15
3- 12	4- 14

Correct Answer Number: 4

-----< Question 31 >-----

```
static void main(string[] args)
{
    int[] a =
    { 1, 5, 6, 8, 1, 2, 10, 50, 30, 600, -4, 1, 200,
    600, 200, 30 };

    int x = a[0];
    int i = 0;
    for(int j = 0; j < a.Length; j++)
    {
        if(a[j] < x)
        {
            x = a[j];
            i = x;
        }
    }
    Console.WriteLine(i);
}

1- 1          2- 0
3- -4         4- 6
```

Correct Answer Number: 3

-----< Question 32 >-----

```
static void main(string[] args)
{
    int[] x = { 1, 2, 3, 4, 5, 6 };
    int[] y = { 10, 20, 30, 40, 50, 60 };
    swap(x,y);
    Console.WriteLine(x[0] + " " + y[0]);
}
static void swap(int[] a, int[] b)
{
    for(int i = 0; i < a.Length; i++)
    {
        int z = a[i];
        a[i] = b[i];
        b[i] = z;
    }
}
```

1- 10 1

2- 10 10

3- 1 8

4- 9 2

Correct Answer Number: 1

-----< Question 33>-----

```
static void main(string[] args)
{
    int n = 8;
    for(int i = 1; i <= n; i++)
    {
        for(int j = 1; j <= n; j++)
        {
            if(j==1 || j==i || j==n)
            {
                Console.Write(" * ");
            }
            else
            {
                Console.Write(" ");
            }
        }
        Console.WriteLine();
    }
}
```

1- Y

2- N

3- E

4- M

Correct Answer Number: 2

```
-----< Question 34 >-----

static void Main(string[] args)
{
    string value1 = "cat";
    SetString1(ref value1);
    Console.WriteLine(value1);
    string value2;
    SetString2(1 , out value2);
    Console.WriteLine(value2);
}
static void SetString1(ref string value)
{
    if(value == "cat")
    {
        Console.Write("Is cat");
    }
    value = "dog";
}
static void SetString2(int number , out string value)
{
    if(number == 1)
    {
        value = "one";
    }
    else
    {
        value = "correct";
    }
}

    1- Is cat dog          2- dog one
    3- Is cat carrot      4- Is cat dog one

-----
Correct Answer Number: 4
```

-----< Question 35 >-----

```
static void Main(string[] args)
{
    float y = 5;
    v(y , 7);
    Console.WriteLine(y);
}
static void v(float x, int k)
{
    x = x + k % 2;
}
```

1- 0

2- 10

3- 105

4- 5

Correct Answer Number: 4

-----< Question 36 >-----

```
static void Main(string[] args)
{
    Console.WriteLine(g(4) + g(5) + "," + g(6));
}
static void g(int k)
{
    if(k == 1 || k == 2)
    {
        return 1;
    }
    else
    {
        return g(k - 1) + g(k - 2);
    }
}
```

1- 8,3

2- 88,33

3- 8,8

4- 2,2

Correct Answer Number: 3

-----< Question 37 >-----

```
static void Main(string[] args)
{
    Console.WriteLine(ml(3,4) + "," + ml(4,3));
}
static int ml(int a, int n)
{
    int v = 0;
    for(int i = 1; i <= n; i++)
    {
        v = v + i * a;
    }
    return v;
}
```

1- 30,3

2- other

3- 24,30

4- 30,24

Correct Answer Number: 4

-----< Question 38 >-----

```
static void Main(string[] args)
{
    int[] b = { 9, 10, 5, 8 };
    change(b);
    for(int i =0; i <= b.Length - 1; i++)
        Console.WriteLine(b[i] + ",");
}
static void change(int[] a)
{
    int t; int n;
    n = a.Length;
    for(int j = 0; j <= n - 2; j++)
        if(a[j] > a[j + 1])
        {
            t = a[j];
            a[j] = a[j + 1];
            a[j + 1] = t;
        }
}
```

1- 9,10,5,8,

3- 9,5,8,10,

2- other

4- 9,5,10,8,

Correct Answer Number: 3

-----< Question 39 >-----

```
static void Main(string[] args)
{
    bool e;
    int n = 3; int m = 4;
    e = (c(n) + c(m) == c(m + n));
    Console.WriteLine(e);
}
static int c(int a)
{
    int t = 4;
    return t = a;
}
```

1- 0

2- True

3- False

4- other

Correct Answer Number: 2

-----< Question 40 >-----

```
static void Main(string[] args)
{
    int N = 4, m, i;
    int[] b;
    b = new int[N];
    for(i = 0; i <= N - 1; i++)
        b[i] = 2 * i;
    m = 2;
    aMod(m, b);
    Console.Write(m + ":");
    for(i = 0; i <= N - 1; i++)
        Console.Write(b[i] + ",");
    Console.WriteLine();
}
static void aMod(int a)
{
    for(int i =0; i <= v.Length; i++)
        v[i] = v[i] % k;
    k = k + 2;
}
```

1- 2:1,1,1,1,
3- 2:0,0,0,0,

2- 10:0,0,0,0,
4- other

Correct Answer Number: 3

-----< Question 41 >-----

```
static void Main(string[] args)
{
    float x = 10;
    u(x,2);
    Console.WriteLine(x);
}
public static void u(float a, int k)
{
    a = a + k + k / 2;
}
```

1- 10

2- 13

3- 10,2

4- 17

Correct Answer Number: 1

-----< Question 42 >-----

```
static int n = 20;
static void Main(string[] args)
{
    pnx();
    pn();
    p();
    Console.WriteLine(" ");
}
static void p()
{
    Console.Write(" " + n);
}
static void pn()
{
    int n = 10; Console.Write(" " + n);
}
static void pnx()
{
    n = 30; Console.Write(" " + n);
}
```

1- 10 30 30

2- 30 30 10

3- Error

4- 30 10 30

Correct Answer Number: 4

-----< Question 43 >-----

```
static void Main(string[] args)
{
    Console.WriteLine(d(4) + d(5) + " " + d(6));
}
static int d(int k)
{
    if((k==1) || (k==2))
        return 1;
    else
        return d(k - 1) + d(k - 2);
}
```

1- 8 8

3- 8 6

2- 6 8

4- 6 6

Correct Answer Number: 1

-----< Question 44 >-----

```
static void Main(string[] args)
{
    Console.Write(z(0,5) + ",");
    Console.Write(z(12,-6) + ",");
    Console.Write(z(15,5) + ",");
    Console.WriteLine();
}
static int z(int a, int b)
{
    a = Math.Abs(a); b = Math.Abs(b);
    while(a != 0 && b != 0)
    {
        if(a > b)
            a = a % b;
        else
            b = b % a;
    }
    if (b == 0) return a; else return b;
}
```

1- 6,5,6

3- Other

2- 5,6,5

4- 1,5,6

Correct Answer Number: 2