



ALZEEKA Tutorial



CSCE 101



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<https://alzeeka.github.io/alzeeka/>

تمارين عن **looping**



- Write a program that prints the numbers from 1 to 10.

- Using for

```
public class Main {  
    public static void main(String[] args) {  
        for (int i = 1; i <= 10; i++) {  
            System.out.println(i);  
        }  
    }  
}
```



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- Using while

```
public class Main {  
  
    public static void main(String[] args) {  
  
        int i = 1;  
        while (i <= 10 ) {  
            System.out.println(i);  
            i++;  
        }  
  
    }  
}
```

- Using do while

```
public class Main {  
  
    public static void main(String[] args) {  
  
        int i = 1;  
        do{  
            System.out.println(i);  
            i++;  
        } while (i <= 10 );  
  
    }  
}
```



- **Exercise 2: Print the numbers Descending from 10 to 1 using a for loop**

```
public class Main {  
  
    public static void main(String[] args) {  
  
        for (int i = 10; i >= 0; i--) {  
            System.out.println(i);  
        }  
  
    }  
}
```

- **Exercise 3: Print the even numbers from 2 to 20 using a while loop**

```
public class Main {  
  
    public static void main(String[] args) {  
        int i=2;  
        while(i <= 20) {  
            if(i % 2 == 0) {  
                System.out.println(i);  
            }  
            i++;  
        }  
  
    }  
}
```



- **Exercise 4:** print 5 the "program" word using a do-while loop

```
public class Main {  
  
    public static void main(String[] args) {  
        int i=1;  
  
        do {  
            System.out.println("program");  
            i++;  
        }while(i <= 5);  
  
    }  
}
```

- **Exercise 5:** Prompt the user to enter an integer, then print the numbers from 1 to the number entered by the user using a do-while loop

```
import java.util.Scanner;  
public class Main {  
  
    public static void main(String[] args) {  
        Scanner scanner = new Scanner(System.in);  
  
        System.out.print("Enter an integer: ");  
        int num = scanner.nextInt();  
  
        int i = 1;  
        do {  
            System.out.print(i + " ");  
            i++;  
        } while (i <= num);  
  
    }  
}
```



- **Exercise 6: Printing a list of even numbers from 2 to 100 using for**

```
public class Main {  
    public static void main(String[] args) {  
        for (int i = 2; i <= 100; i++) {  
            if(i % 2 == 0) {  
                System.out.println(i);  
            }  
        }  
    }  
}
```

❖ Choose the correct answer

1. what is output

```
int x=5;  
while(x<20) {  
    System.out.print(x + " ");  
    x +=10;  
}
```

- a) 10 5
- b) 5 10
- c) **5 15**
- d) 5 10 15 20



2. what is output

```
int x=5;
while(x<=20) {
    System.out.print(x + " ");
    x +=5;
}
```

- a) 10 15 20
- b) 5 10 15
- c) 20 15 10
- d) 5 10 15 20

3. what is output

```
for(int x =0 ; x<3 ; x++)
    System.out.print(x + " ");
```

- a) 0 1 2
- b) 1 2 3
- c) 0 1 2 3
- d) x x x



4. what is output

```
for(int i =0 ; i<3 ; i++){  
    for(int j =0 ; j<2 ; j++)  
        System.out.print(i + " ");  
}
```

- a) 0 0 1 1 2 2
- b) 0 1 2 3
- c) 0 2 4 6
- d) 0 0 1 1 2 2 3 3

5. what is output

```
int x=0;  
do {  
    for(int i=0 ; i<3 ; i++)  
        System.out.print(i + " ");  
}while(x > 3);
```

- a) 0 1 2 0 1 2 0 1 2
- b) 0 1 2 0 1 2
- c) 0 1 2
- d) None



6. what is output

```
int x=0;
do {
    for(int i=3 ; i>=0 ; i--)
        System.out.print(i + " ");

}while(x > 3);
```

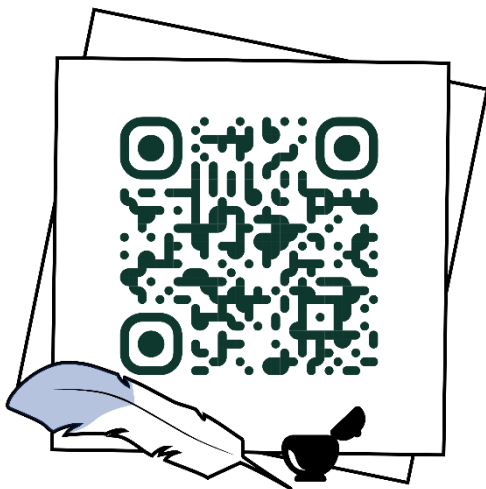
- a) 3 2 1 0 3 2 1 0 3 2 1 0
- b) **3 2 1 0**
- c) 3 2 1 0 3 2 1 0
- d) None

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