

## Day 7 Assignment

Q1) Is there any difference between creating a string with and without a new operator?  
Explain with an example.

Q2) Write a Java program to get the character at the given index within the String. Take the input with the help of Scanner class

### Sample Output:

```
Enter the String:
"Java Exercises"
Enter the character position you want to access:
2
Character at position 2 is :
v
```

Q3) Create a class Course with 3 instance variables:

1. courseId: int
2. courseName: String
3. courseFee: int

- Define a non-static method inside the Course class as follows:

```
displayCourseDetails: void
```

Inside the above method print all the details of the course.

- Define a static method inside the Course class

```
authenticate: void
```

This method will take 2 parameters:

```
username: String
password: String
```

Implement this authenticate() method as follows:

If the supplied username is "Admin" and the password is "1234" then inside this method create the Course class object by taking details from the user using scanner class. Set the value of courseId, courseName, courseFee on that object and call the displayCourseDetails() method on that course object. Otherwise, print "Invalid Username or password"

- Define the main method inside the Course class and call the authenticate() method 2 times first time with a valid username and password and the second time with an invalid username and password.