

North South University
Department of Electrical and Computer Engineering
CSE 215L: Programming Language II Lab

Lab – 2: Conditional Statements,String methods

Objective:

- To learn to use conditional statements (if, else, switch case)
- To learn the usage String function

if-else

```
if(condition){  
    // do something  
}  
else{  
    // do something else  
}
```

Switch

```
switch(case){  
    case 1:  
        // do things for case 1 break;  
  
    case 2:  
        // do things for case 2 break;  
  
    default:  
        // do things for default case  
}
```

Nested-if

```
if(condition){  
    if(condition){  
        // do something  
    }else{  
        //do somethng  
    }  
  
}  
  
}  
else{  
    // do something  
}  
else  
{  
}
```

Nested Switch

```
switch(case){  
    case 1:  
        switch(case){  
            case 1:  
                // do things for  
                break;  
  
            default:  
                // do things for default case  
                break;  
        }  
        break;  
  
    default:  
        // do things for default case  
        break;  
}
```

String Methods: https://www.w3schools.com/java/java_ref_string.asp

Task:

1. Take Three students Full Name,id,section,total marks from user input.Calculate their grade and grade point using NSU grading policy.Then Print all information .(Solve this problem using if,,else if and switch..case)

2. Write a program to print the result of this equation

$$\text{Result}=3\pi+(\text{height}*\text{width})+\text{height}^2/(2\pi*\text{width}^2)$$

Note: Take height and width from the user input.

3. Take five students name,id,section,cgpa,gender from user input.
 - i.Print students id,section if gender is female and name length is 4
 - ii.Print students name,cgpa if gender is male and name start with S
4. A person went to a City bank ATM Booth and entered his card to withdraw **N amount** of money.

Now consider the below cases:

1. The withdrawal amount must be **greater than or equal to 500**. Print **“INVALID AMOUNT”** if the condition doesn't match.
2. Amount must be **multiple of 500**. Print **“INVALID VALUE”** if the condition doesn't satisfy.
3. The maximum amount must be **less than or equal to 20,000**. Print **“EXCEEDED AMOUNT”** in this case.
4. If the requested amount passes all the above conditions, print **“TRANSACTION SUCCESSFUL”**.
5. Else print **“Error Occurred”**.

Note: Use Nested Switch..case to solve qus 4