\*Assignment No.2\*

-> Section 1:- Error - Driven Learning In Java

Snippet.1

* Errors :-
* Class is public.
* Main method is not static.
* Correct Code :-

class Main {

public static void main(String[] args) {

System.out.println("Hello, World!");

}

}

Snippet. 2

* Errors :-
* Class is public.
* Main method is not found because public word is not there.
* Correct Code :-

class Main {

public static void main(String[] args) {

System.out.println("Hello, World!");

}

}

Snippet. 3

* Errors :-
* Class is public.
* Main method consist of int instead of void as it should return value of type void.
* } was missing at the end.
* Correct Code :-

class Main {

public static void main(String[] args) {

System.out.println("Hello, World!");

return ;

}

}

Snippet. 4

* Errors :-
* String args is not present, its used to pass command line argument to program.
* Correct Code :-

class Main {

public static void main(String[] args) {

System.out.println("Hello, World!");

return ;

}

}

Snippet. 5

* Errors :-

Two main methods are present but only one got executed with string argument.

* Correct Code :-

class Main {

public static void main(String[] args) {

System.out.println("Main method with String[] args");

public static void main(int[] args) {

System.out.println("Overloaded main method with int[] args");

} }

Snippet. 6

* Errors :-

Variables must be declared for execution to be taken.

* Correct Code :-

class Main {

public static void main(String[] args) {

int y=2;

int x = y + 10;

System.out.println(x);

}

}

Snippet. 7

* Errors :-

String cannot be converted to int.

Snippet. 8

* Errors :-

Bracket & semicolon missing.

Snippet. 9

* Errors :-

Can't use keywords as variables.

Snippet. 10

* Errors :-

Create objects of class & then call method overloading is allowed.

* Correct Code :-

class Main {

public void display() {

System.out.println("No parameters"); }

public void display(int num) {

System.out.println("With parameter: " + num); }

public static void main(String[] args) {

Main m = new Main();

m.display();

m.display(5);

}

}

Snippet. 11

* Errors :-

Out of bound exception for array, 1 used 2 instead of 5

0-1,1-2,2-3

* Correct code :-

class Main {

public static void main(String[] args) {

int[] arr = {1, 2, 3};

System.out.println(arr[0]);

}

}

Snippet. 12

* Errors :-

Use the break function to stop the Infinite loop.

Snippet. 13

* Errors :-

Null Pointer Exception.

Put the valid string example rohan.

Snippet. 14

Snippet. 15

Snippet. 16

Yes, output is 2.0

Snippet. 17

\*\* is not accepted, use \* because there will be many warnings.

Snippet. 18

Will perform only 1st operator, but we can use bracket then action takes place.

Snippet. 19

Arithmetic exception not acceptable for integers.

Snippet. 20

Snippet. 21

Snippet. 22

Snippet. 23

Put the break function after statements of cases.

Snippet. 24

Put the break function after statements of cases.

Snippet. 25

Do typecasting below: switch((int)score)

Snippet. 26

Duplicate case label not allowed, wont compile

-> Section 2: Java Programming - Conditional Statements

Question 1: grade classification

class Grades {

public static void main(String[] args) {

int score = 82;

if(score>=90){

System.out.println("A");

}

else if(score>=80 && score<=89){

System.out.println("B");

}

else if (score>=70 && score<=79){

System.out.println("C");

}

else if (score>=60 && score<=69){

System.out.println("D");

}

else{

System.out.println("F");

}

}

}

Question 2: Days of the Week

class DayWeek {

public static void main(String args[]){

int day = 1;

switch(day){

case 1: System.out.println("Today is mon n week");

break;

case 2:

System.out.println("Today is tues n week");

break;

case 3:

System.out.println("Today is wedn n week");

break;

case 4:

System.out.println("Today is thur n week");

break;

case 5:

System.out.println("Today is fri n week");

break;

case 6:

System.out.println("Today is sat n weekend");

break;

case 7:

System.out.println("Today is sun n weekend");

break;}}}

Question 3: Calculator

import java.io.\*;

import java.util.\*;

class calculator {

public static void main(String[] args) {

int a, b;

char operator;

String operation;

Scanner sc = new Scanner(System.in);

System.out.print("Enter a first number:");

a = sc.nextInt();

System.out.print("Enter a second number:");

b = sc.nextInt();

System.out.print("Enter operator:");

operator = sc.next().charAt(0);

//System.out.print("Enter the operation:");

//operation = sc.next();

switch (operator) {

case '+':

System.out.println("Addition is" + (a + b));

break;

case '-':

System.out.println("Substraction is" + (a - b));

break;

case '\*':

System.out.println("Multiplication is" + (a \* b));

break;

case '/':

if (b == 0) {

System.out.println("Error: Divide by zero is not allowed!");

} else {

System.out.println("Dividation is" + (a / b));

}

break;

case '%':

System.out.println("Modulation is" + (a % b));

break;

default:

System.out.println("Invalid request!");

break;

}

sc.close();

}

}

Question 4: Discount Calculation

class Discount {

public static void main(String args[]){

Scanner sc = new Scanner(System.in);

System.out.println("Enter price ");

int price =sc.nextInt();

System.out.println("Enter 1 if membership present else 0");

int membership = sc.nextInt();

if(price >=1000){

if(membership==1){

System.out.println("Discount is : " + ((price\*25)/100));

}else{

System.out.println("Discount is : "+(price\*20)/100);

}

}else if(price >=500 && price<=999){

if(membership==1){

System.out.println("Discount is : "+(price\*15)/100);

}else{

System.out.println("Discount is : "+(price\*10)/100);

}

}else{

if(membership==1){

System.out.println("Discount is : "+(price\*10)/100);

}else{

System.out.println("Discount is : "+(price\*5)/100);

}

}

}

}

Question 5:Pass Fail

class Passfail {

public static void main(String[] args) {

int sub1 = 50;

int sub2 = 20;

int sub3 = 30;

if(sub1>40 && sub2>40 && sub3>40){

System.out.println("passed in all");

}

else if(sub1>40 && sub2<=40 && sub3<=40){

System.out.println("failed in 2 subjects");

}

else if(sub2>40 && sub1<=40 && sub3<=40){

System.out.println("failed in 2 subjects");

}

else if(sub3>40 && sub1<=40 && sub2<=40){

System.out.println("failed in 2 subjects");

}

else{

System.out.println("Failed in all subjects");

}

}

}