

Assignment 4

Question 2

```
void main()
{

    //var num = 5;

    //print("Sum Of Given No. Is : ${num}");

    mul(2);

}

void mul(int num)
{
    for (int i = 1; i<=num; i++)
    {
        for(int j=1; j<=10; j++)
        {
            int total = i*j;
```

```

        print(" $i * $j = $total");
    }

}

}

```

The screenshot shows a code editor with a C# program. The code defines a `main` method that calls `mul(2)`, and a `mul` method that calculates the sum of products for a given number. The console output shows the results of the `mul` method for `num = 2`.

```

3 void main()
4 {
5
6     //var num = 5;
7     //print("Sum Of Given No. Is : ${num}");
8
9     mul(2);
10
11
12 }
13
14 void mul(int num)
15 {
16     for (int i = 1; i<=num; i++)
17     {
18         for(int j=1; j<=10; j++)
19         {
20             int total = i*j;
21
22             print(" $i * $j = $total");
23         }
24     }
25 }
26
27

```

Console Output:

```

1 * 10 = 10
2 * 1 = 2
2 * 2 = 4
2 * 3 = 6
2 * 4 = 8
2 * 5 = 10
2 * 6 = 12
2 * 7 = 14
2 * 8 = 16
2 * 9 = 18
2 * 10 = 20

```

Documentation

Question 3

```

void main()

{

    var lst = {2,4,6,8,9};

    for (var i in lst)

```

```

{

    table(i);

}

}

void table(var a)

{

    for(var x=1; x<=10; x++)

    {

        print("$a * $x = ${x*a}");

    }

}

```

```

1 void main()
2
3 {
4
5     var lst = {2,4,6,8,9};
6
7     for (var i in lst)
8     {
9
10
11         table(i);
12
13     }
14 }
15
16 void table(var a)
17 {
18 {
19
20     for(var x=1; x<=10; x++)
21
22     {
23
24         print("$a * $x = ${x*a}");
25
26     }
27 }

```

Run

Console

```

8 * 10 = 80
9 * 1 = 9
9 * 2 = 18
9 * 3 = 27
9 * 4 = 36
9 * 5 = 45
9 * 6 = 54
9 * 7 = 63
9 * 8 = 72
9 * 9 = 81
9 * 10 = 90

```

Documentation

Question 4

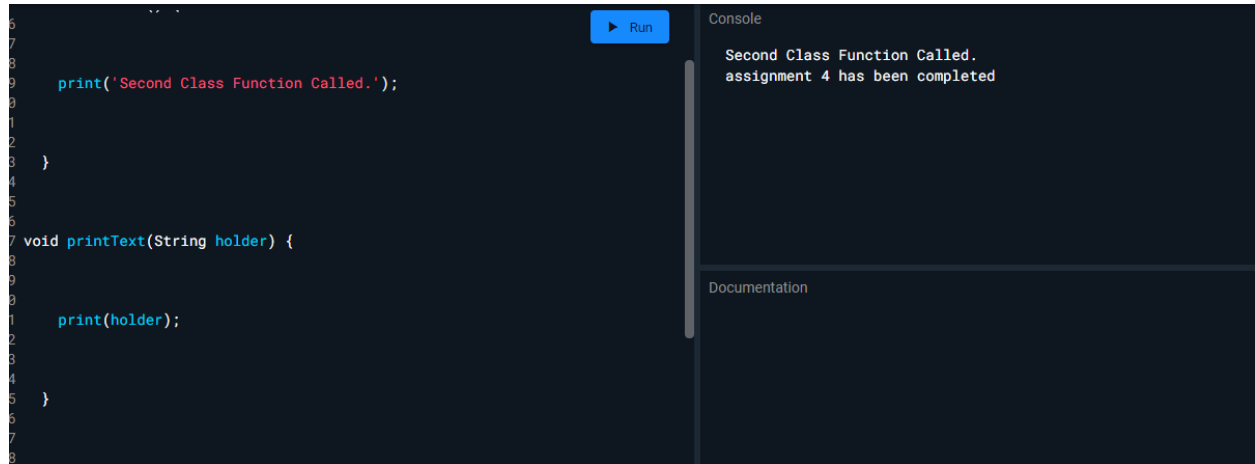
```
void main() {  
    // Creating object of the child class  
  
    var name ["Hasan","Ali","Hamza","Zain","Areeb"];  
    var marks[88,77,66,55,44];  
  
    for(var i in name)  
    {  
        marksheet(i);  
    }  
}  
  
void marksheet(var a)  
{  
    for (var i in a)  
    {  
  
        print(a);  
  
    }  
  
    // for(var i in marks)  
    //{
```

```
//print(i);  
//}  
}
```

Question 5

```
class Second {  
    void randomMSG() {  
        print('Second Class Function Called.');    }  
    void printText(String holder) {  
        print(holder);  
    }  
}  
void main()  
{  
    Second s = new Second();  
    s.randomMSG();  
    s.printText("assignment 4 has been completed");  
}
```

```
}
```



The screenshot shows a code editor with a dark theme. On the left, a C# code snippet is visible, including a `print` statement and a `printText` method. A blue 'Run' button is located above the code. On the right, the 'Console' window displays the output: 'Second Class Function Called.' followed by 'assignment 4 has been completed' on a new line. Below the console, a 'Documentation' pane is visible but empty.

```
6  
7  
8  
9     print('Second Class Function Called.');
```

```
10  
11  
12  
13 }  
14  
15  
16  
17 void printText(String holder) {  
18  
19  
20     print(holder);  
21  
22  
23 }  
24  
25  
26  
27  
28
```

Run

Console

```
Second Class Function Called.  
assignment 4 has been completed
```

Documentation

Question 6

```
class Data  
{  
    var dtName;  
  
    showdtInfo()  
    {  
        print("My Name Is ${dtName}");  
    }  
}  
  
void main ()  
{  
    var std = new Data();  
    std.dtName = "Hasan";  
    std.showdtInfo();  
}
```

```
1 class Data
2 {
3     var dtName;
4
5     showdtInfo()
6     {
7         print("My Name Is ${dtName}");
8     }
9 }
10 void main ()
11 {
12     var std = new Data();
13     std.dtName = "Hasan";
14     std.showdtInfo();
15 }
```

Run

Console

My Name Is Hasan

Documentation

Question 7

class Student

{

Student(var name, int age, var edu)

{

print("The name is: \${name}");

print("The age is: \${age}");

print("The education is: \${edu}");

}

}

void main()

{

```
Student std = new Student("Hasan",22,"graduated");  
}
```

Question 8

```
class Bird{  
    void fly()  
    {  
        print("The bird can fly");  
    }  
}  
  
// Inherits the super class  
class Parrot extends Bird{  
    //child class function  
    void speak(){  
        print("The parrot can speak");  
    }  
}  
  
void main() {  
    // Creating object of the child class  
    Parrot p=new Parrot();  
    p.speak();  
    p.fly();  
}
```



```
1 class Bird{
2     void fly()
3     {
4         print("The bird can fly");
5     }
6 }
7 // Inherits the super class
8 class Parrot extends Bird{
9     //child class function
10    void speak(){
11        print("The parrot can speak");
12    }
13 }
14 void main() {
15     // Creating object of the child class
16     Parrot p=new Parrot();
17     p.speak();
18     p.fly();
19 }
```

▶ Run

Console

The parrot can speak
The bird can fly

Documentation