

## Day 3

### 1. Problem Statement : Print Hello World.

**Solution :**

```
echo "Hello World"
```

**Output :**

A terminal window with a dark background. The title bar shows 'arijit@arijit-heaily:~/Desktop/arijit/bin'. The prompt is 'arijit@arijit-heaily:~/Desktop/arijit/bin'. The user has entered './helloWorld.sh' and the output is 'Hello World'.

```
arijit@arijit-heaily:~/Desktop/arijit/bin  
./helloWorld.sh  
Hello World
```

### 2. Problem Statement : Input your name and print it.

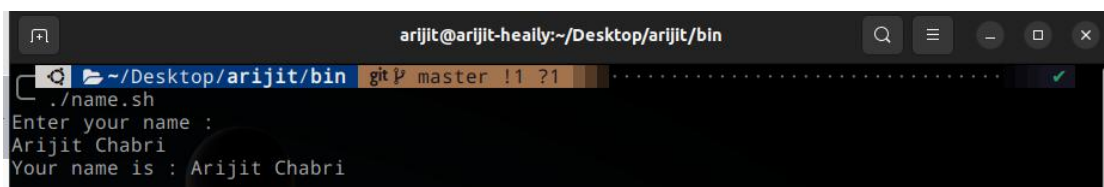
**Solution :**

```
echo "Enter Your Name : "
```

```
read name
```

```
echo "Your name is : $name"
```

**Output :**

A terminal window with a dark background. The title bar shows 'arijit@arijit-heaily:~/Desktop/arijit/bin'. The prompt is 'arijit@arijit-heaily:~/Desktop/arijit/bin'. The user has entered './name.sh'. The output shows 'Enter your name :', followed by the input 'Arijit Chabri', and then 'Your name is : Arijit Chabri'.

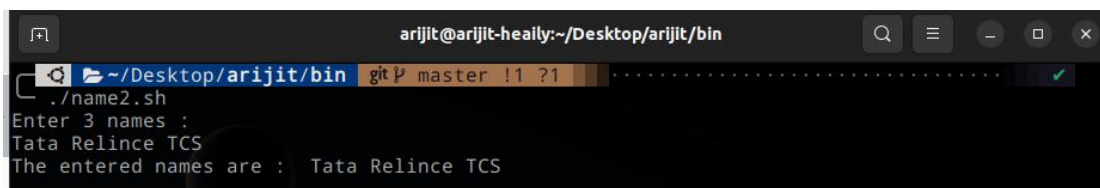
```
arijit@arijit-heaily:~/Desktop/arijit/bin  
./name.sh  
Enter your name :  
Arijit Chabri  
Your name is : Arijit Chabri
```

3. Problem Statement : Take multiple names as input and print them.

Solution :

```
echo "Enter 3 names : "  
  
read name1 name2 name3  
  
echo "The entered names are : " $name1 $name2 $name3
```

Output :



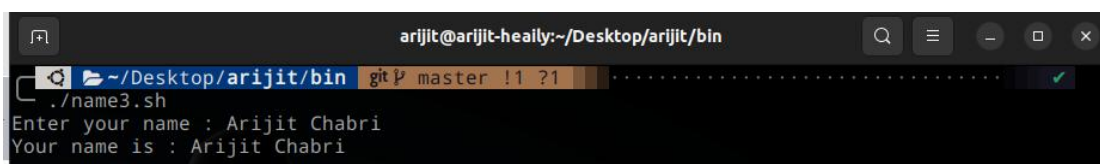
```
arijit@arijit-heaily:~/Desktop/arijit/bin  
./name2.sh  
Enter 3 names :  
Tata Relince TCS  
The entered names are : Tata Relince TCS
```

4. Problem Statement : Take name as input in the same line.

Solution :

```
read -p "Enter your name : " name  
  
echo "Your name is : $name"
```

Output :



```
arijit@arijit-heaily:~/Desktop/arijit/bin  
./name3.sh  
Enter your name : Arijit Chabri  
Your name is : Arijit Chabri
```

5. Problem Statement : Take 2 numbers and add them.

Solution :

```
a=10  
  
b=20  
  
sum=$((a+b))  
  
echo "The sum is : " $sum
```

Output :



```
arijit@arijit-heaily:~/Desktop/arijit/bin  
./add.sh  
The sum is : 30
```

6. Problem Statement : Find the perimeter, area of a circle of radius 5.

Solution :

```
radius=5
```

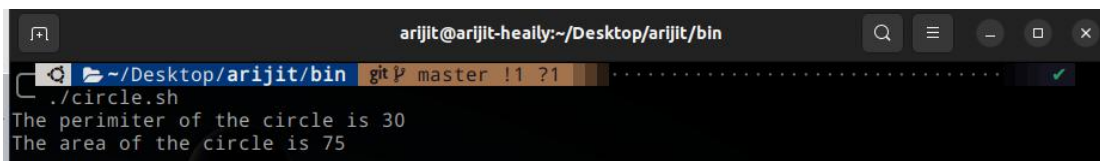
```
P=$((2*22/7*$radius))
```

```
A=$((22/7*$radius*$radius))
```

```
echo "The perimeter of the circle is $P"
```

```
echo "The area of the circle is $A"
```

Output :

A terminal window with a dark background. The title bar shows 'arijit@arijit-heally:~/Desktop/arijit/bin'. The prompt is 'arijit@arijit-heally:~/Desktop/arijit/bin'. The user has entered './circle.sh'. The output of the script is displayed on two lines: 'The perimeter of the circle is 30' and 'The area of the circle is 75'.

```
arijit@arijit-heally:~/Desktop/arijit/bin
./circle.sh
The perimeter of the circle is 30
The area of the circle is 75
```

7. Problem Statement : Find the perimeter and area of a circle from a user given radius input.

Solution :

```
read -p "Enter the radius : " radius
```

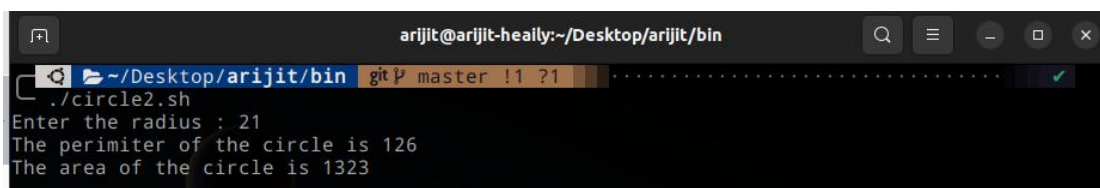
```
P=$((2*22/7*$radius))
```

```
A=$((22/7*$radius*$radius))
```

```
echo "The perimeter of the circle is $P"
```

```
echo "The area of the circle is $A"
```

Output :

A terminal window with a dark background. The title bar shows 'arijit@arijit-heally:~/Desktop/arijit/bin'. The prompt is 'arijit@arijit-heally:~/Desktop/arijit/bin'. The user has entered './circle2.sh'. The script prompts 'Enter the radius : ' and the user has entered '21'. The output of the script is displayed on two lines: 'The perimeter of the circle is 126' and 'The area of the circle is 1323'.

```
arijit@arijit-heally:~/Desktop/arijit/bin
./circle2.sh
Enter the radius : 21
The perimeter of the circle is 126
The area of the circle is 1323
```