```
//Athul M B
//roll no -20
//arithmeticcalculator
echo -n "Enter a two number:"
read a
read b
echo "choose an operater"
echo "1.addition"
echo "2.subraction"
echo "3.multiplication"
echo "4.division"
read c
case $c in
1) result=((a + b));;
2) result=$((a - b));;
3) result=((a * b));
4) result=$((a / b));;
*) echo "invalid operator:"
return 1;;
esac
echo "result: $result"
student@dl-14:~/shell$ ./arithematiccalculator.sh
Enter a two number:1
7
choose an operater
1.addition
2.subraction
3.multiplication
4.division
1
result: 8
student@dl-14:~/shell$ ./arithematiccalculator.sh
Enter a two number:2
choose an operater
1.addition
2.subraction
3.multiplication
4.division
result: 14
```

```
//Athul M B
//rollno-20
//palindrome
```

```
student@dl-14:~/os$ chmod +x palindrome.sh
student@dl-14:~/os$ ./palindrome.sh
Enter a number : 131
The reverse of the number is : 131
The number is a palindrome.
student@dl-14:~/os$ chmod +x palindrome.sh
student@dl-14:~/os$ ./palindrome.sh
Enter a number : 412
The reverse of the number is : 214
The number is not a palindrome.
student@dl-14:~/os$
```

//Athul M B //roll no -20

```
student@dl-14:~/os$ gedit factorial.sh
student@dl-14:~/os$ chmod +x factorial.sh
student@dl-14:~/os$ ./factorial.sh
Enter a number : 2
The factorial of 2 is 2
student@dl-14:~/os$
```

```
student@dl-14:~/os$ gedit sumofdig.sh
student@dl-14:~/os$ chmod +x sumofdig.sh
student@dl-14:~/os$ ./sumofdig.sh
Enter a number : 26
The sum of digits of 26 is 8
student@dl-14:~/os$
```

```
student@dl-14:~/os$ gedit oddoreven.sh
student@dl-14:~/os$ chmod +x oddoreven.sh
student@dl-14:~/os$ ./oddoreven.sh
Enter a number : 4
The number is even
student@dl-14:~/os$
```