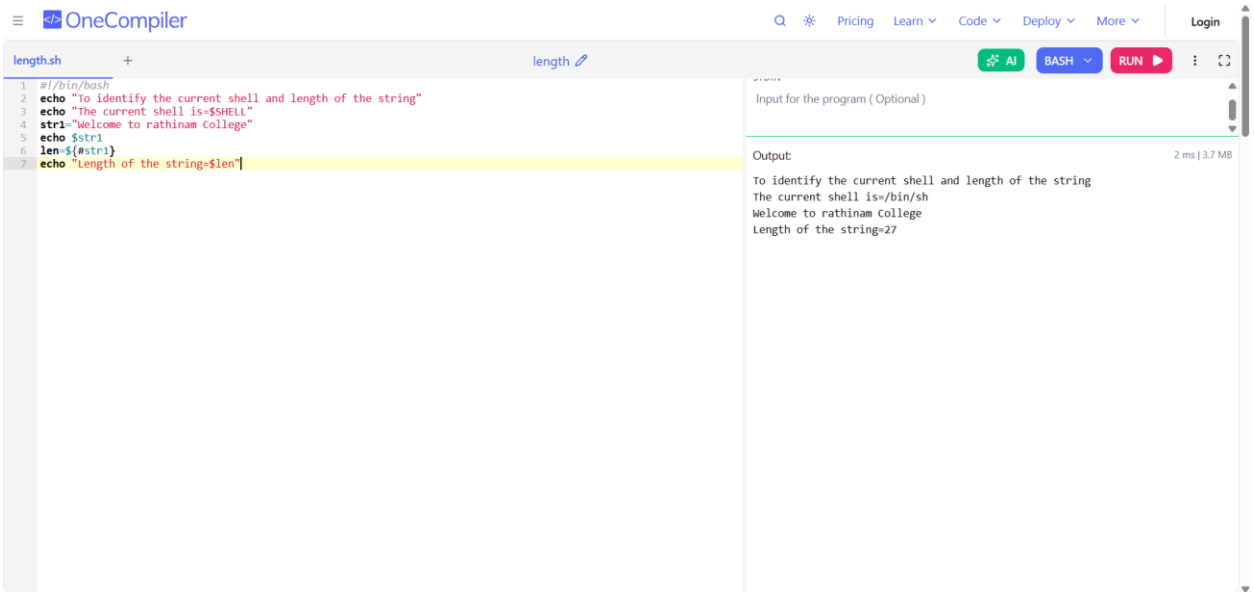
PROGRAM 1:

```
echo "To identify the current shell and length of the string"
echo "The current shell is=$SHELL"
str1="Welcome to rathinam College"
echo $str1
len=${#str1}
echo "Length of the string=$len"
```

OUTPUT:



PROGRAM 2:

```
echo "------------------------------------------------------------"
echo "To count backwards for 100 to 0 using for loop"
echo "------------------------------------------------------------"
c=0
for ((i=100; i>=0; --i))
do
  echo "$i"
```

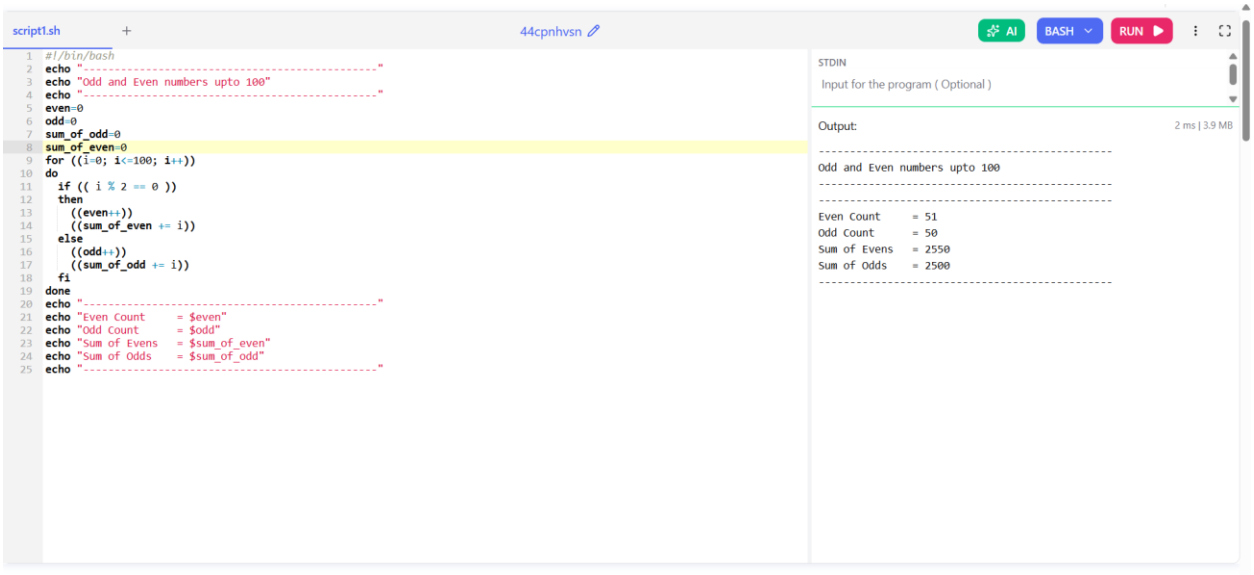
```
 s=$[c++]
done
echo "-----------------------------------------------------"
echo "Count=$s"
echo "-----------------------------------------------------"
```

OUTPUT:

PROGRAM 3:

```
echo "-----------------------------------------"
echo "Odd and Even numbers upto 100"
echo "-----------------------------------------"
even=0
odd=0
sum_of_odd=0
sum_of_even=0
```

```
for ((i=0; i<=100; i++))
do
 if (( i % 2 == 0 ))
 then
  ((even++))
  ((sum_of_even += i))
 else
  ((odd++))
  ((sum_of_odd += i))
 fi
done
echo "-----------------------------------------"
echo "Even Count    = $even"
echo "Odd Count     = $odd"
echo "Sum of Evens  = $sum_of_even"
echo "Sum of Odds   = $sum_of_odd"
echo "-----------------------------------------"
```



PROGRAM 4

```
echo "----------------------------------------"
echo "To print the star in the descending order"
echo "----------------------------------------"
for ((i=5; i>=1; i--))
do
 for ((j=1; j<=i; j++))
 do
  echo -n "*"
 done
 echo
done
echo "----------------------------------------"
```