

1. WAP to print 'Hello World'

a) Code

```
#!/usr/bin/bash
echo "Hello World!"
```

b) Output

```
Hello World!
```

2. WAP to Print your details like Name, roll no, branch, Cgpa.

a) Code

```
#!/usr/bin/bash

echo "Name: Deepak Maurya"
echo "Roll number: 23053044"
echo "Branch: CSE"
echo "CGPA: X.X"
```

b) Output

```
Name: Deepak Maurya
Roll number: 23053044
Branch: CSE
CGPA: X.X
```

3. WAP to add two numbers

a) Code

```
#!/usr/bin/bash

read -p "Enter first number: " n1
read -p "Enter second number: " n2

echo "$n1 + $n2 = $(expr $n1 + $n2)"
```

b) Output

```
Enter first number: 100
Enter second number: 20
100 + 20 = 120
```

4. WAP to find difference of two numbers.

a) Code

```
#!/usr/bin/bash

read -p "Enter first number: " n1
read -p "Enter second number: " n2

echo "$n2 - $n1 = $(expr $n2 - $n1)"
```

b) Output

```
Enter first number: 50
Enter second number: 200
200 - 50 = 150
```

5. WAP to convert distance in cm into m , km

a) Code

```
#!/usr/bin/bash

read -p "Enter distance in cm: " dist_cm

dist_m=$(echo "scale=5; $dist_cm / 100" | bc)
dist_km=$(echo "scale=5; $dist_m / 1000" | bc)

echo "$dist_cm cm = $dist_m m"
echo "$dist_cm cm = $dist_km km"
```

b) Output

```
Enter distance in cm: 100450
100450 cm = 1004.50000 m
100450 cm = 1.00450 km
```

6. WAP to convert temp in Celsius into Fahrenheit.

a) Code

```
#!/usr/bin/bash

read -p "Enter temperature in celsius: " temp_celsius

temp_fahrenheit=$(echo "scale=2; ($temp_celsius * 9 / 5) + 32" | bc)

echo "$temp_celsius C = $temp_fahrenheit F"
```

b) Output

```
Enter temperature in celsius: 4
4 C = 39.20 F
```