8.1 Write a shell script to save all usernames and their id number in your system to a file userid.

cut -d ":" -f 1,3 /etc/passwd > userid

8. .2 Write a shell script to create a simple calculator

```
echo "Menu";
echo "1.addition";
echo "2.Substraction";
echo "3.Multiplication";
echo "4.Division";
echo "Select your option";
read opt;
echo "Enter 2 numbers";
read a b;

case $opt in
1)  r=$(($a+$b));
    echo "result=$r";
   ;;
2)  r=$(($a-$b));
echo "result=$r";
;;
3)  r=`expr $a \* $b`;
echo "result=$r";
;;
4)  r=$(($a/$b));
echo "result=$r";
;;
*) echo "Invalid option";
esac
```

```
echo "Menu";
echo "1.addition";
echo "2.Substraction";
echo "3.Multiplication";
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echo "Select your option";
read opt;
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1)  r=$(($a+$b));
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echo "result=$r";
;;
3)  r=`expr $a \* $b`;
echo "result=$r";
;;
4)  r=$(($a/$b));
echo "result=$r";
;;
*) echo "Invalid option";
esac
```

alan@DESKTOP-N0TVOD0: /mnt/e/networklab/shell_program

```
alan@DESKTOP-N0TVOD0:/mnt/e/networklab/shell_program$ bash 8_2.sh
Menu
1.addition
2.Substraction
3.Multiplication
4.Division
Select your option
1
Enter 2 numbers
3 5
result=8
alan@DESKTOP-N0TVOD0:/mnt/e/networklab/shell_program$ bash 8_2.sh
Menu
1.addition
2.Substraction
3.Multiplication
4.Division
Select your option
3
Enter 2 numbers
5 6
result=30
alan@DESKTOP-N0TVOD0:/mnt/e/networklab/shell_program$ bash 8_2.sh
Menu
1.addition
2.Substraction
3.Multiplication
4.Division
Select your option
4
Enter 2 numbers
50 10
result=5
alan@DESKTOP-N0TVOD0:/mnt/e/networklab/shell_program$
```