EX - 1

```
echo -n "Enter a number: "
read num
factorial=1
for ((i=1; i<=num; i++)); do
factorial=$((factorial * i))
done
echo "Factorial of $num is $factorial"
EX - 2
```

```
#!/bin/bash
echo -n "Enter a number: "
read num
for ((i=1; i<=10; i++)); do
echo "$num x $i = $((num * i))"
done
```

EX - 3

```
#!/bin/bash
echo -n "Enter a number: "
read num
reverse=0
```

```
while [$num -gt 0]; do
remainder=$((num % 10))
reverse=$((reverse * 10 + remainder))
num=$((num / 10))
done
echo "Reversed number: $reverse"
EX - 4
#!/bin/bash
for file in *; do
echo "$file"
done
EX – 5
#!/bin/bash
echo -n "Enter a number (1-7): "
read day
case $day in
1) echo "Sunday" ;;
2) echo "Monday" ;;
 3) echo "Tuesday" ;;
4) echo "Wednesday" ;;
 5) echo "Thursday" ;;
 6) echo "Friday" ;;
```

```
7) echo "Saturday" ;;*) echo "Invalid input. Please enter a number between 1 and 7" ;;esac
```

EX - 6

```
#!/bin/bash
echo "Select an operation: "
echo "1. Addition"
echo "2. Subtraction"
echo "3. Multiplication"
echo "4. Division"
read -p "Enter choice [1-4]: " choice
case $choice in
 1) read -p "Enter two numbers: " a b
  echo "Result: $((a + b))" ;;
 2) read -p "Enter two numbers: " a b
  echo "Result: $((a - b))" ;;
 3) read -p "Enter two numbers: " a b
  echo "Result: $((a * b))" ;;
 4) read -p "Enter two numbers: " a b
   if [$b-eq0]; then
   echo "Division by zero is not allowed"
   else
    echo "Result: $((a / b))"
  fi ;;
 *) echo "Invalid choice" ;;
```