Ensured that there are no unwanted branches in the repository and cleaned up the main repository by deleting unwanted files. A base skeleton for the code is created in the main repository itself. A new branch is created for adding the function to perform the addition operation.

```
noidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$_git puĺl
Already up to date.
moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ git branch -1
moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
README.md code.py
moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ cat code.py
import argparse
# Getting inpus from user
 function for addition -<TBD>
  function for subtraction -<TBD>
  function for division -<TBD>
  function for multiplication -<TBD>
moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ git checkout -b feature-addition
Switched to a new branch 'feature-addition'
```

The function to perform addition operation and printing the result is completed by the feature branch named "feature-addition"

```
HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (feature-addition)
$ cat code.py
import argparse
# Getting inpus from user
# function for addition
def add(x=args.x, y=args.y):
    return x+y
  function for subtraction -<TBD>
  function for division -<TBD>
  function for multiplication -<TBD>
result = eval(f"{args.operation}()")
print(f"The action {args.operation} between {args.x} and {args.y} resulted in {result}")
      riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (feature-addition)
$ git status
On branch feature-addition
Your branch is up to date with 'origin/feature-addition'.
nothing to commit, working tree clean
```

Similarly, the function to perform multiplication is created in a new feature branch (feature-mult) created from the main branch.

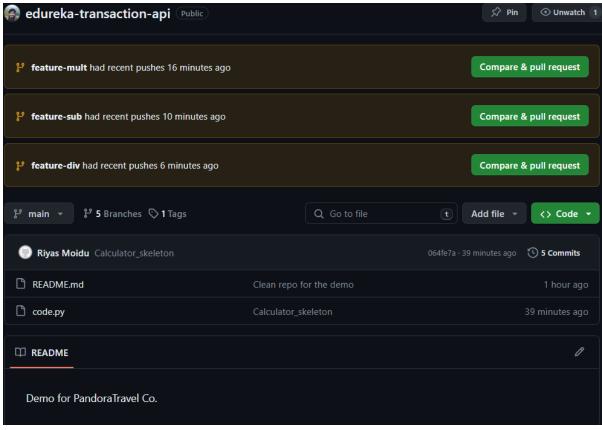
```
cat code.py
 import argparse
# Getting inpus from user
parser = argparse.ArgumentParser(description="Simple Calculator")
parser.add_argument("action", type=str,
help="Choose 'add' for Addition, 'sub' for Subtraction, 'div' for Division, and 'mul' for Multiplication")
parser.add_argument("x", type=float, help="Value of X")
parser.add_argument("y", type=float, help="Value of Y")
args = parser.parse_args()
 Getting inpus from user
# function for addition -<TBD>
   function for subtraction -<TBD>
   function for division -<TBD>
  function for multiplication -<TBD>
                                                      4 ~/Desktop/Edureka/edureka-transaction-api (main)
$ git checkout -b feature-mult
Switched to a new branch 'feature-mult'
 moidu.riyas@HYD-MJRIYAS MINGW6
$ echo "the code is modified"
the code is modified
  oidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (feature-mult)
 S cat code.py import argparse
# Getting inpus from user
parser = argparse.ArgumentParser(description="Simple Calculator")
parser.add_argument("action", type=str,
help="choose 'add' for Addition, 'sub' for Subtraction, 'div' for Division, and 'mul' for Multiplication")
parser.add_argument("x", type=float, help="Value of X")
parser.add_argument("y", type=float, help="Value of Y")
args = parser.parse_args()
   function for addition -<TBD>
  function for division -<TBD>
  function for multiplication
      mul(x=args.x, y=args.y)
return x * y
```

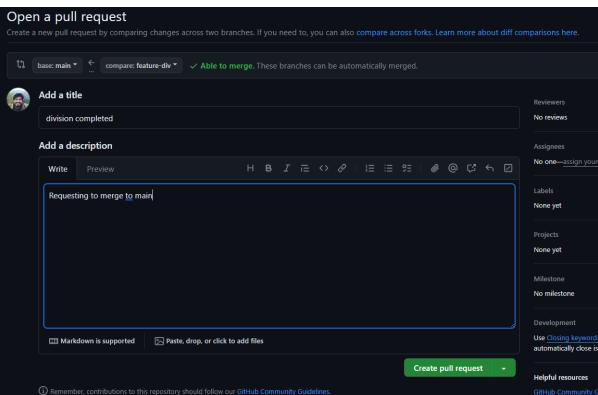
The function to perform subtraction is created in a new feature branch (feature-sub) created from the main branch.

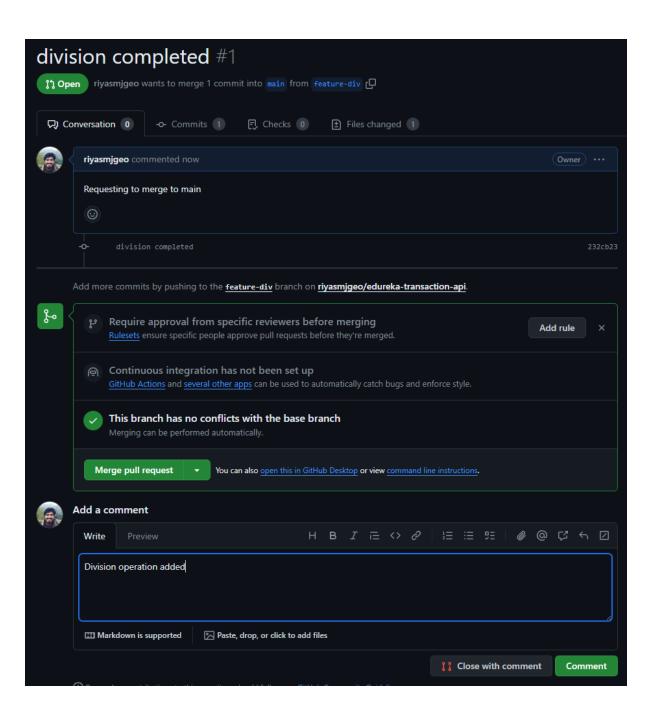
```
-/Desktop/Edureka/edureka-transaction-api (main)
$ git checkout -b feature-sub
Switched to a new branch 'feature-sub'
moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (feature-sub)
$ cat code.py
import argparse
# Getting inpus from user
function for addition -<TBD>
 function for subtraction -<TBD>
 function for division -<TBD>
 function for multiplication -<TBD>
noidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (feature-sub)
 echo "code modified:
code modified:
moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (feature-sub)
$ cat code.py
import argparse
# Getting inpus from user
# function for addition -<TBD>
 function for subtraction -<TBD>
def sub(x=args.x, y=args.y):
   return x - y
 function for division -<TBD>
 function for multiplication -<TBD>
```

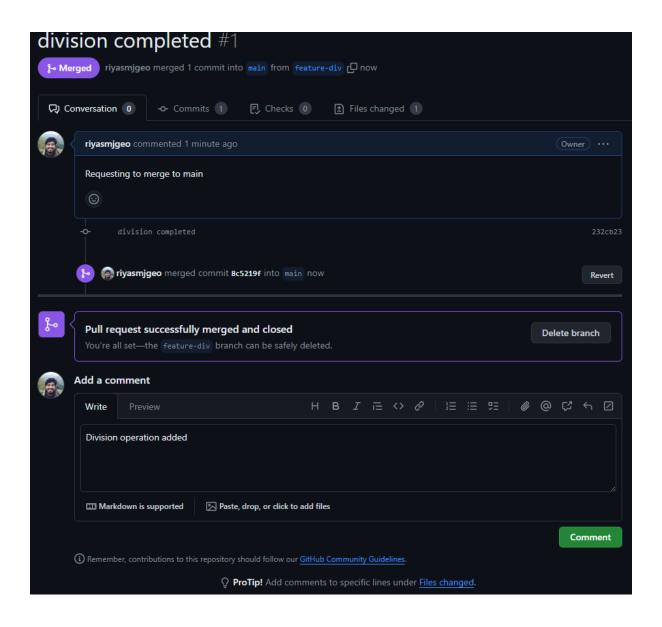
The function to perform division is created in a new feature branch (feature-div) created from the main branch.

Create pull-request









Pulled changes to the local main branch

```
MINGW64 ~/Desktop/Edureka/edureka-transaction-api (feature-div)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
 moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ git pull
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (1/1), 900 bytes | 900.00 KiB/s, done.
From https://github.com/riyasmjgeo/edureka-transaction-api
064fe7a..8c5219f main -> origin/main
Updating 064fe7a..8c5219f
East-forward
 ast-forward
 code.py | 8 +++++++
1 file changed, 7 insertions(+), 1 deletion(-)
 noidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ cat code.py
import argparse
# Getting inpus from user
# function for addition -<TBD>
  function for subtraction -<TBD>
  function for division
def div(x=args.x, y=args.y):
     if y==0:
          print("Can't divide by zero")
          return None
     else:
          return x/y
  function for multiplication -<TBD>
```

Finding difference between two branches

```
moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ git diff main feature-mult
diff --git a/code.py b/code.py
index Oddfa68..7cb2cd0 100644
--- a/code.py
+++ b/code.py
@@ -12,12 +12,8 @@ args = parser.parse_args()

# function for subtraction -<TBD>
-# function for division
-def div(x=args.x, y=args.y):
- if y==0:
- print("Can't divide by zero")
- return None
- else:
- return x/y
+# function for multiplication -<TBD>
-# function for multiplication def mul(x=args.x, y=args.y):
+ return x * y

moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
```

Reverting changes in a file

Merging a branch directly

```
w64 ~/Desktop/Edureka/edureka-transaction-api (main)
moidu.riyas@HYD-
$ cat code.py
import argparse
# Getting inpus from user
parser = argparse.ArgumentParser(description="Simple Calculator")
parser.add_argument("action", type=str,
help="choose 'add' for Addition, 'sub' for Subtraction, 'div' for Division, and 'mul' for Multiplication")
parser.add_argument("x", type=float, help="Value of X")
parser.add_argument("y", type=float, help="Value of Y")
args = parser.parse_args()
   function for subtraction -<TBD>
# function for division
       div(x=args.x, y=args.y):
  if y==0:
    print("Can't divide by zero")
    return None
       else:
                return x/y
   function for multiplication -<TBD>
  oidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main) git branch feature-addition feature-div feature-mult feature-sub main
                                                MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
 moral.rlyas@HVD-MJRIYAS MINGW64 ~/Desktop/Edure()
S git merge feature-mult
Auto-merging code.py
Merge made by the 'recursive' strategy.
code.py | 4 +++-
1 file changed, 3 insertions(+), 1 deletion(-)
  oidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
  cat code.py
  import argparse
# Getting inpus from user

parser = argparse.ArgumentParser(description="Simple Calculator")

parser.add_argument("action", type=str,

help="choose 'add' for Addition, 'sub' for Subtraction, 'div' for Division, and 'mul' for Multiplication")

parser.add_argument("x", type=float, help="Value of X")

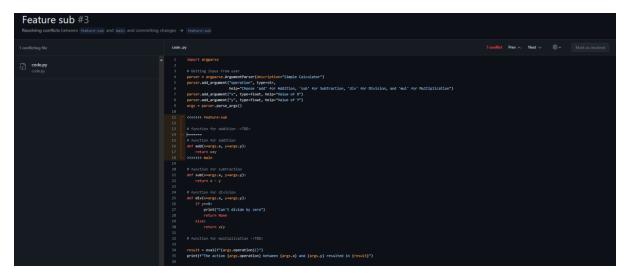
parser.add_argument("y", type=float, help="Value of Y")

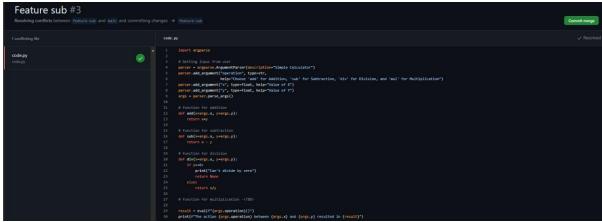
args = parser.parse_args()
 # Getting inpus from user
  function for addition -<TBD>
   function for subtraction -<TBD>
  f function for division
def div(x=args.x, y=args.y):
    if y==0:
               y==0:
print("Can't divide by zero")
return None
       else:
return x/y
  function for multiplication
ef mul(x=args.x, y=args.y):
return x * y
```

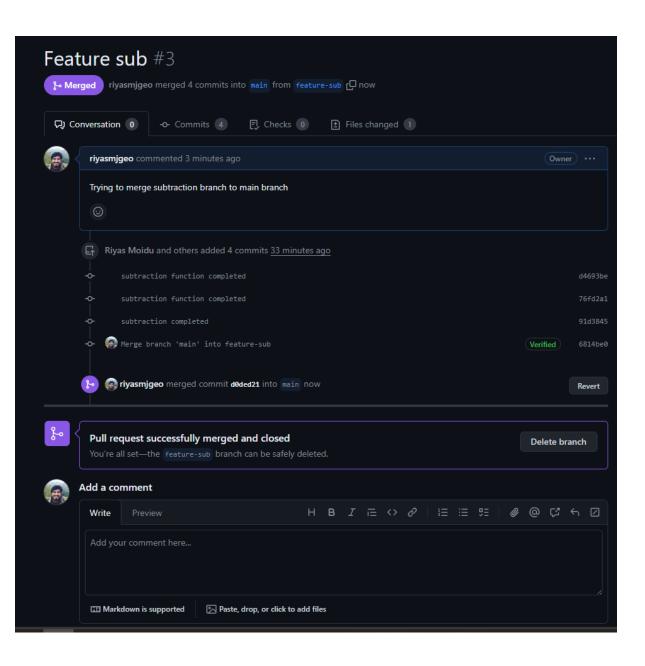
Deleted the remote branch

```
moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ git push origin --delete feature-mult
To https://github.com/riyasmjgeo/edureka-transaction-api.git
- [deleted] feature-mult
```

Conflict resolution







Conflict resolution locally

```
code.py > ..
W (;)
          # function for division
def div(x=args.x, y=args.y):
    if y==0:
        print("Can't divide by zero")
        return None
    else:
        return x/y
                                                                                                                                                                                               # function for division
def div(x=args.x, y=args.y):
    if y==0:
        print("Can't divide by zero")
        return None
    else:
        return x/y
  20
21
22
23
24
25
26
                                                                                                                                                                                     18
19
20
21
22
             Accept Incoming | Accept Combination | Ignore # function for multiplication -<TBD>
                                                                                                                                                                                    23
24
25
                                                                                                                                                                                                # function for multiplication
def mul(x=args.x, y=args.y):
    return x * y
  27
28
29
30
31
              result = eval(f"(args.operation)()")
print(f"The action (args.operation) between (args.x) and (args.y) resulted i
Result code.py
              # function for division

def div(x=args.x, y=args.y):
    if x==0:
        print("Can't divide by zero")
        return None
    else:
        return x/y
               No Changes Accepted
# function for multiplication -<TBD>
```

```
noidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ git branch
  feature-addition
 feature-div
 feature-sub
moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ git branch -d feature-addition
Deleted branch feature-addition (was f362c99).
noidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ git branch -d feature-div
Deleted branch feature-div (was 232cb23).
moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ git branch -d feature-sub
Deleted branch feature-sub (was 91d3845).
moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ git branch
moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ git branch -1
moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ git branch -a
 main
remotes/origin/HEAD -> origin/main
remotes/origin/feature-addition
remotes/origin/feature-div
remotes/origin/feature-sub
remotes/origin/main
moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ git push origin --delete feature-addition
To https://github.com/riyasmjgeo/edureka-transaction-api.git
- [deleted]
                      feature-addition
moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ git push origin --delete feature-div
To https://github.com/riyasmjgeo/edureka-transaction-api.git
- [deleted]
                      feature-div
moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ git push origin --delete feature-sub
To https://github.com/riyasmjgeo/edureka-transaction-api.git
[deleted]
                      feature-sub
moidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ git branch -1
noidu.riyas@HYD-MJRIYAS MINGW64 ~/Desktop/Edureka/edureka-transaction-api (main)
$ git branch -a
           origin/HEAD -> origin/main
```