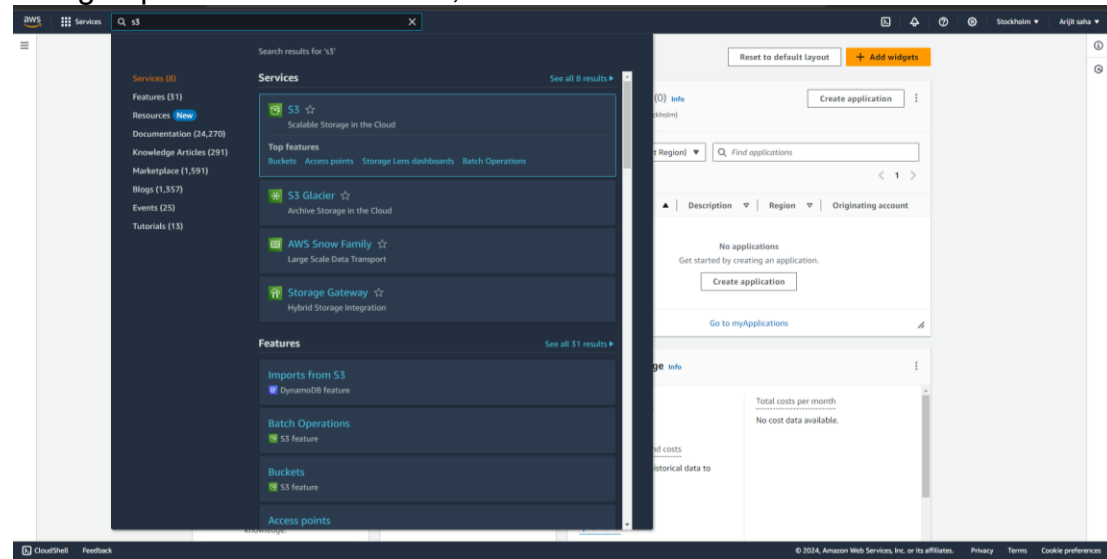


## PROBLEM STATEMENT :

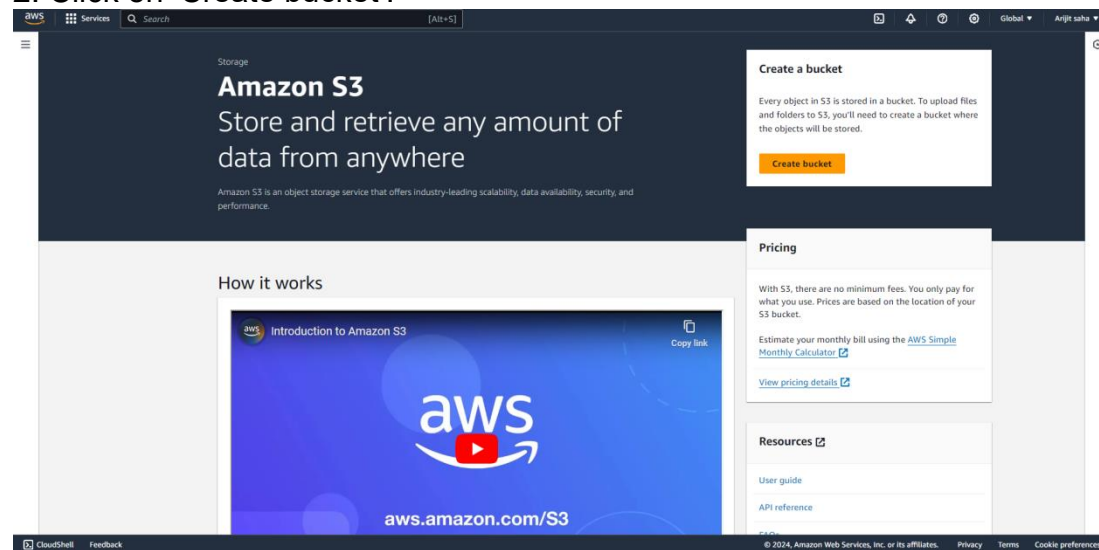
5) Create a public bucket in AWS. Upload a file and check by reassigned URL whether you can access the file or not.

### ***Bucket creation and checking for access->***

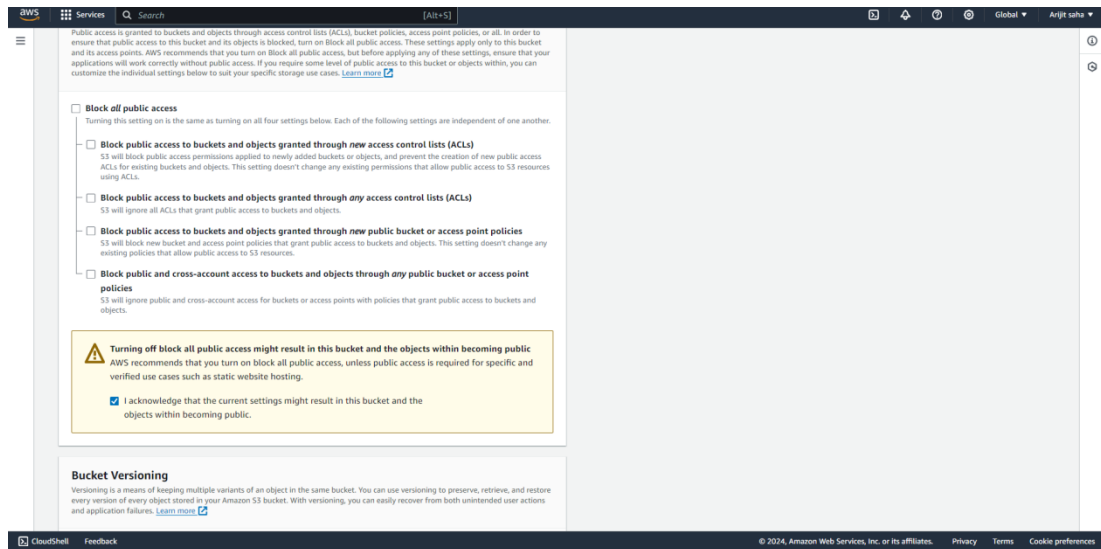
1. Sign up for an AWS account, search for 'S3' then click on it.



2. Click on 'Create bucket'.

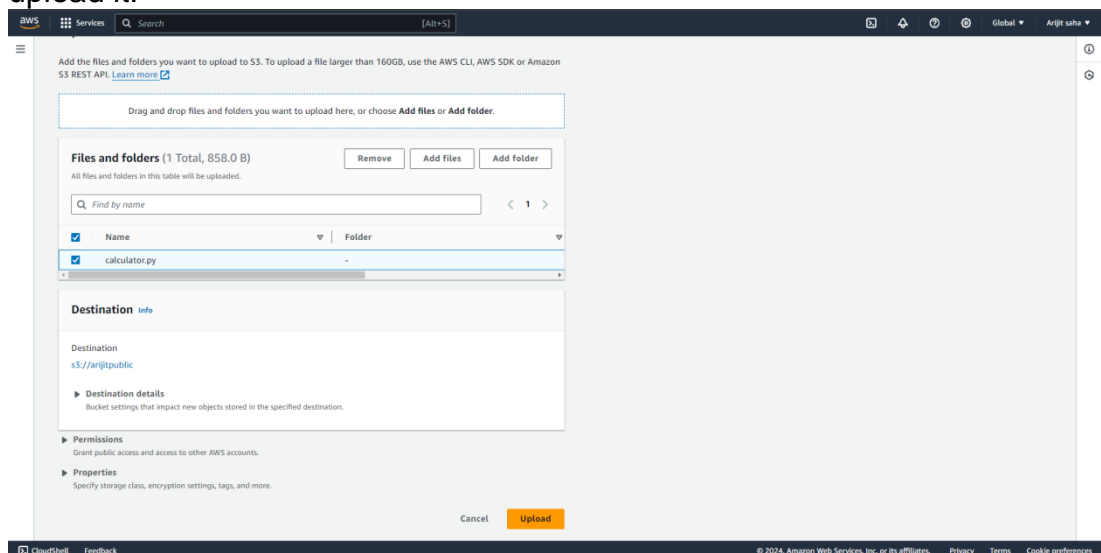


3. Fill up the required details->'AWS region', 'Bucket name', click on 'ACLs enabled', uncheck 'Block all public access', tick off 'I acknowledge....' and click on 'Create bucket'.



4. 'arijtpublic' bucket is created successfully then click on the bucket name 'arijtpublic'.

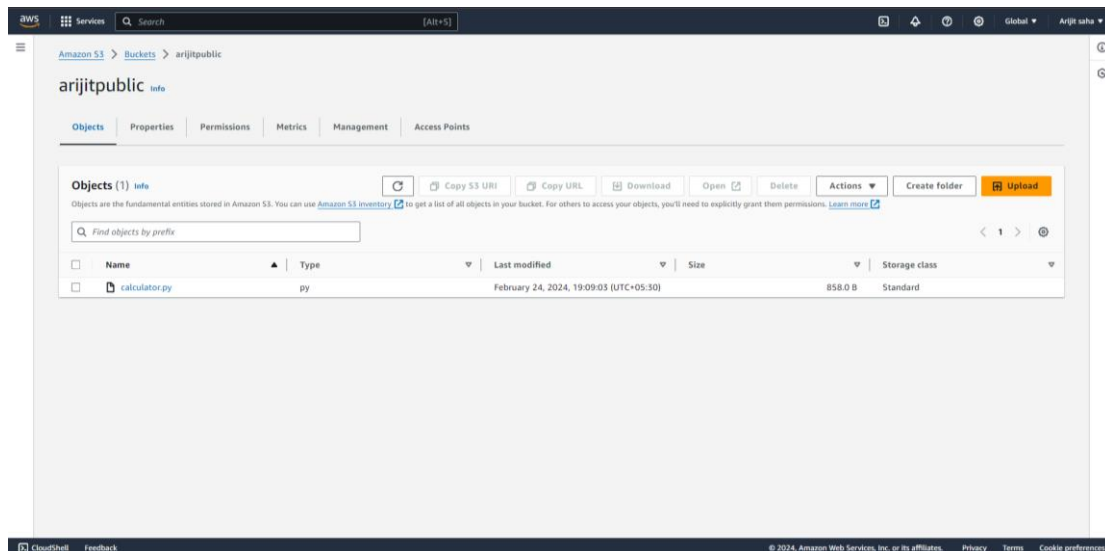
5. Under 'arijtpublic', click on 'Upload' then choose a file of your choice and upload it.



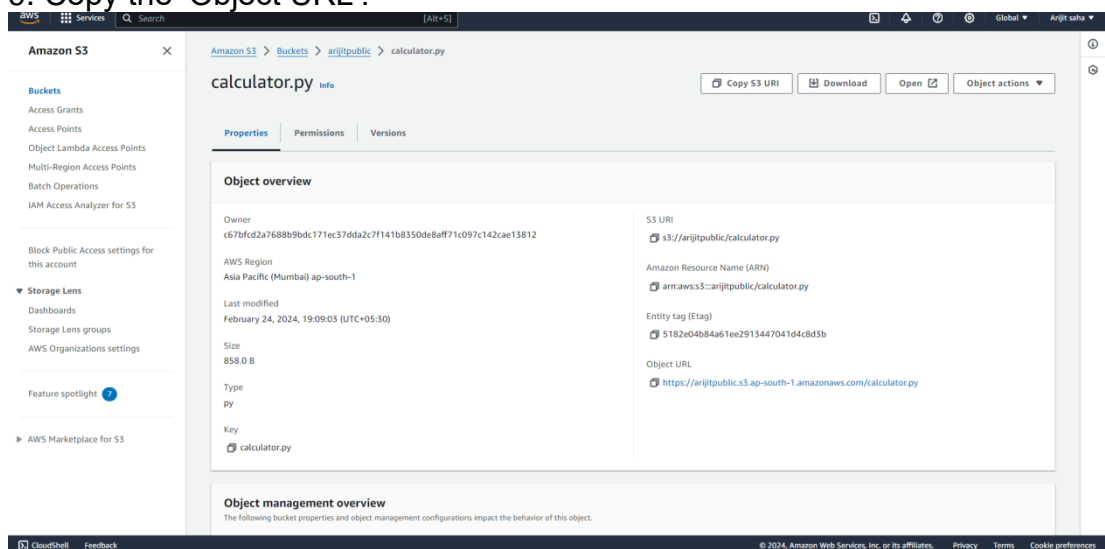
6. Click on 'Add files' then tick off the 'Name' of the file and click on 'Upload'.

7. File is uploaded successfully, tap on 'Close' and click on 'Name'.

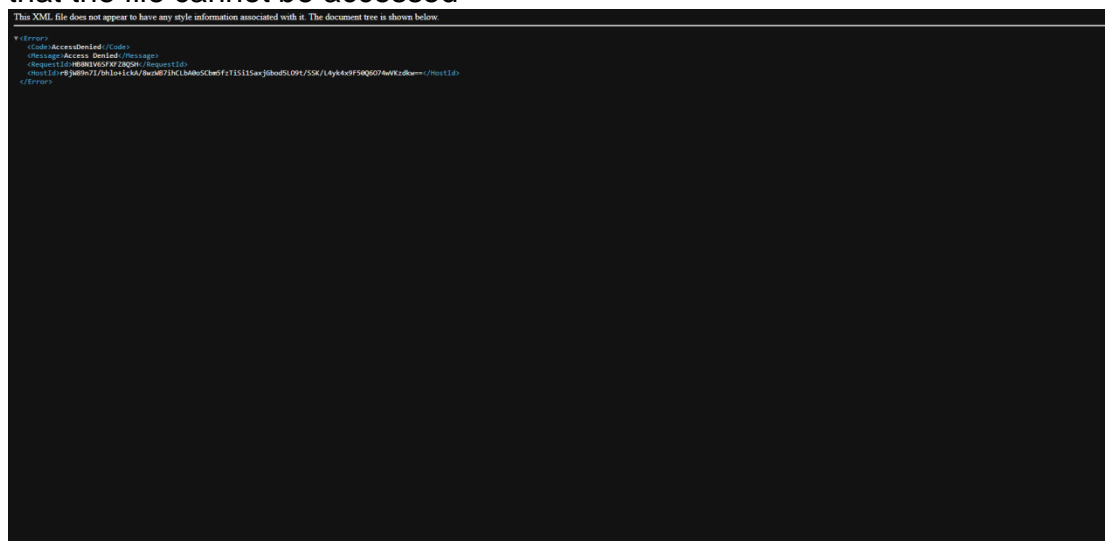
8. Under 'arijtpublic', tick off any one of the file (checkbox) and click on the file.



## 9. Copy the 'Object URL'.

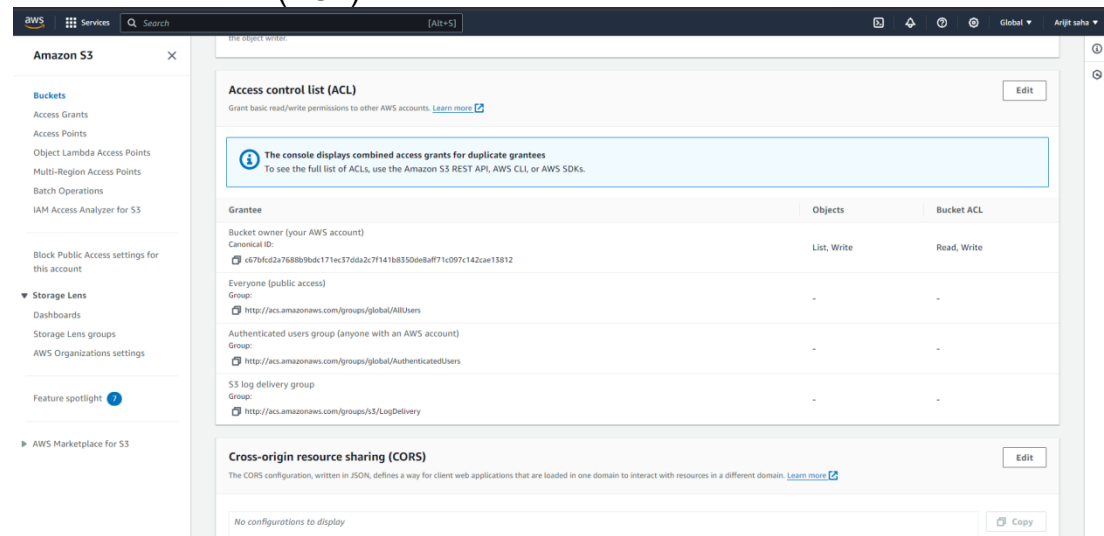


## 10. Now open the 'Incognito mode' and paste the 'Object URL'. You will see that the file cannot be accessed



**To give access to the file , follow the steps given below.**

11. In the file info. click on 'Permissions' and then click on 'Edit' beside 'Access control list(ACL)'.



**Access control list (ACL)**

Grant basic read/write permissions to other AWS accounts. [Learn more](#)

**The console displays combined access grants for duplicate grantees**  
To see the full list of ACLs, use the Amazon S3 REST API, AWS CLI or AWS SDKs.

Grantee	Objects	Bucket ACL
Bucket owner (your AWS account) Canonical ID: c67b6c2a7688b9dc171ec37dda2c7f141b8350de8af71c097c142cae13812	List, Write	Read, Write
Everyone (public access) Group: <a href="http://acs.amazonaws.com/groups/global/AllUsers">http://acs.amazonaws.com/groups/global/AllUsers</a>	-	-
Authenticated users group (anyone with an AWS account) Group: <a href="http://acs.amazonaws.com/groups/global/AuthenticatedUsers">http://acs.amazonaws.com/groups/global/AuthenticatedUsers</a>	-	-
S3 log delivery group Group: <a href="http://acs.amazonaws.com/groups/S3/LogDelivery">http://acs.amazonaws.com/groups/S3/LogDelivery</a>	-	-

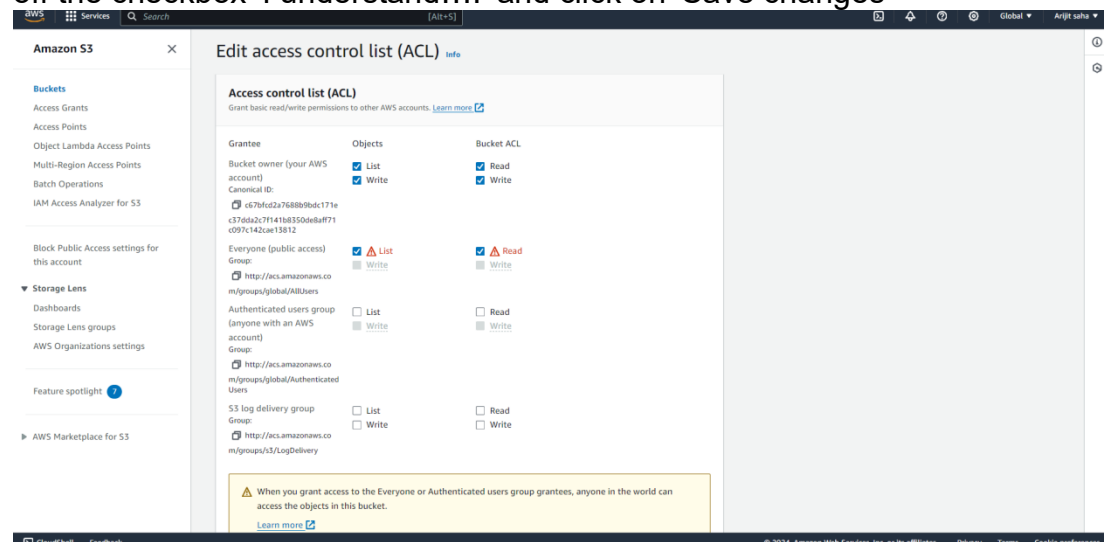
**Cross-origin resource sharing (CORS)**

The CORS configuration, written in JSON, defines a way for client web applications that are loaded in one domain to interact with resources in a different domain. [Learn more](#)

No configurations to display

[Copy](#)

12. Now, tick off the Read checkboxes of 'Everyone(public access)', then tick off the checkbox 'I understand...' and click on 'Save changes'



**Edit access control list (ACL)**

**Access control list (ACL)**

Grant basic read/write permissions to other AWS accounts. [Learn more](#)

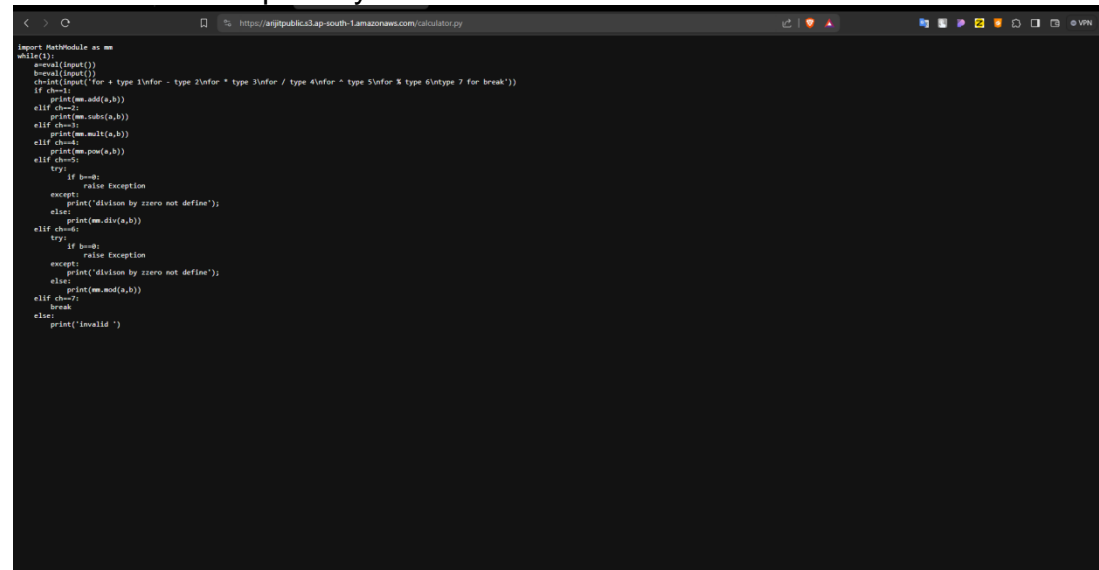
Grantee	Objects	Bucket ACL
Bucket owner (your AWS account) Canonical ID: c67b6c2a7688b9dc171ec37dda2c7f141b8350de8af71c097c142cae13812	<input checked="" type="checkbox"/> List <input checked="" type="checkbox"/> Write	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write
Everyone (public access) Group: <a href="http://acs.amazonaws.com/groups/global/AllUsers">http://acs.amazonaws.com/groups/global/AllUsers</a>	<input checked="" type="checkbox"/> List <input checked="" type="checkbox"/> Write	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write
Authenticated users group (anyone with an AWS account) Group: <a href="http://acs.amazonaws.com/groups/global/AuthenticatedUsers">http://acs.amazonaws.com/groups/global/AuthenticatedUsers</a>	<input type="checkbox"/> List <input type="checkbox"/> Write	<input type="checkbox"/> Read <input type="checkbox"/> Write
S3 log delivery group Group: <a href="http://acs.amazonaws.com/groups/S3/LogDelivery">http://acs.amazonaws.com/groups/S3/LogDelivery</a>	<input type="checkbox"/> List <input type="checkbox"/> Write	<input type="checkbox"/> Read <input type="checkbox"/> Write

**When you grant access to the Everyone or Authenticated users group grantees, anyone in the world can access the objects in this bucket.**

[Learn more](#)

13. Now, again copy the Object URL.

14. In the 'Incognito mode', paste the Object URL. We find that now the file can be accessed publicly.



The screenshot shows a web browser window with the address bar displaying the URL `https://s3public.s3.ap-south-1.amazonaws.com/calculator.py`. The browser's developer tools are open, showing the Python code of the file. The code is a simple calculator script that takes two numbers and an operator as input and performs the corresponding arithmetic operation. It includes error handling for division by zero and invalid input.

```
import math\n\nwhile(1):\n    a=float(input())\n    b=float(input())\n    ch=input('for + type 1\\nfor - type 2\\nfor * type 3\\nfor / type 4\\nfor ^ type 5\\nfor % type 6\\ntype 7 for break')\n    if ch==1:\n        print(a+b)\n    elif ch==2:\n        print(a-b)\n    elif ch==3:\n        print(a*b)\n    elif ch==4:\n        print(a/b)\n    elif ch==5:\n        print(a**b)\n    elif ch==6:\n        print(a%b)\n    elif ch==7:\n        try:\n            if b==0:\n                raise Exception\n            else:\n                print('division by zero not define')\n        except:\n            print('division by zero not define')\n    elif ch==0:\n        try:\n            if b==0:\n                raise Exception\n            else:\n                print('division by zero not define')\n        except:\n            print('division by zero not define')\n    elif ch==1:\n        print(a+b)\n    elif ch==2:\n        print(a-b)\n    elif ch==3:\n        print(a*b)\n    elif ch==4:\n        print(a/b)\n    elif ch==5:\n        print(a**b)\n    elif ch==6:\n        print(a%b)\n    else:\n        print('invalid ')
```