



तत् त्वं पूषन् अपावृणु
केन्द्रीय विद्यालय संगठन

Kendriya Vidyalaya

2020 - 2021


Computer Science Project

Invoice Generator



Made By : Atul kushwaha
Class : 11th

Certificate



This is to certify that Atul student of class XI Computer Science have successfully completed the investigatory project on the topic "Invoice Generator" under the guidance of Mr. Vibin (PGT Computer Science) during the academic year 2020 - 2021 in the partial fulfilment of Computer Science Practical Examination conducted by CBSE, Tamil Nadu

sign of Internal Examiner:

sign of External Examiner:

sign of Principal:

School seal:

Acknowledgement



I would like to express a deep sense of gratitude to Mr.Vibin, PGT, computer science for guiding me through the course of the project.

I would also like to express my sincere thanks to Mrs.Malarvizhi, Principal, KV Thakkolam for her constant motivation which helped me in the completion of the project with great ease.

I extend my sincere gratitude to my parents and my friends for their timely help and support for the completion of this project.

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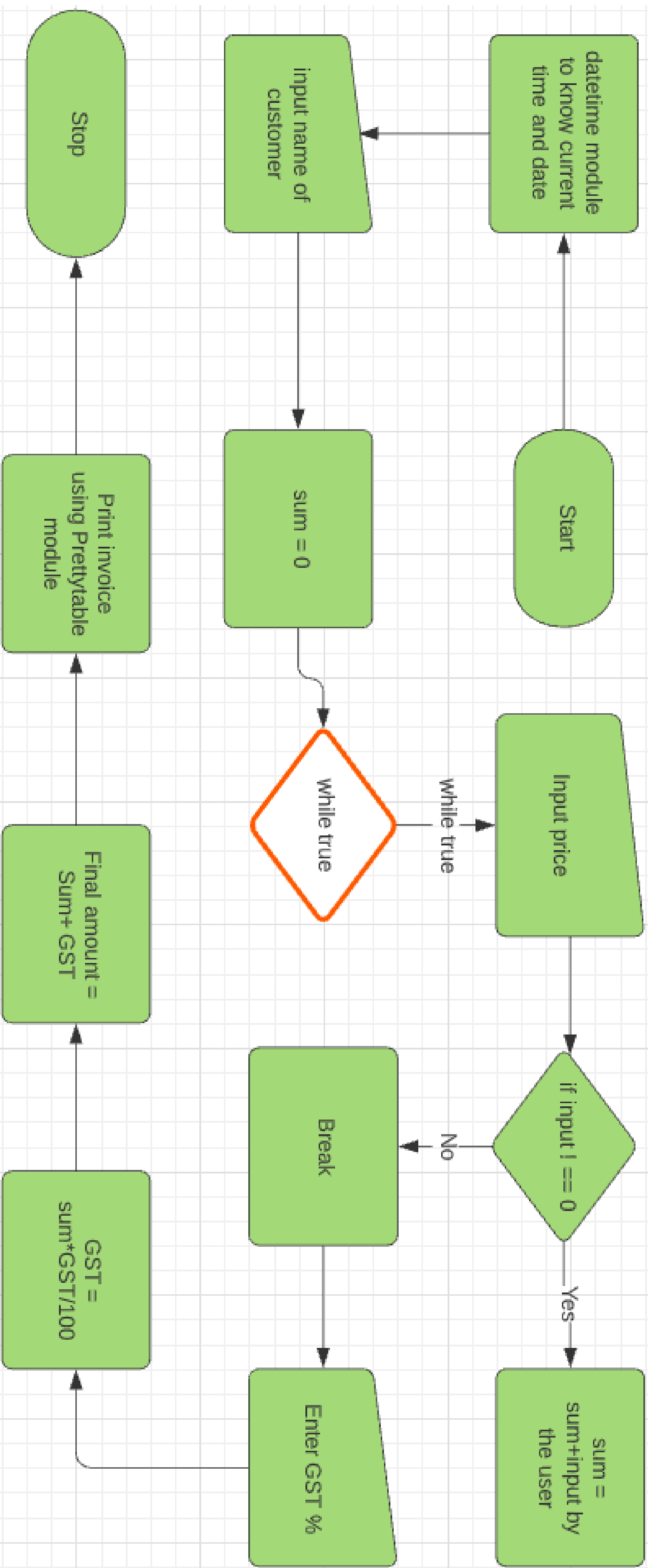
Introduction



The aim of this project is to develop an Invoice generator that is available for the public, in India, there are many shops that don't provide an invoice to their customers which leads them to problems like

- High probability of error in calculation
- A high level of review effort due to faulty attribution of invoices
- Tax arrears due to incorrect invoice
- if a customer bought faulty product he can't prove that he bought that product from that shop

Flow of Control



SYSTEM REQUIREMENTS

- **Hardware**

processor : intel core i3

RAM : 2 GB or higher

- **Software**

Interpreter : Python 3.9

Modules : prettytable , pyfiglet and
datetime

Project Modules

Prettytable

- To print the menu and Invoice

datetime

- To get current date and time

pyfiglet

- To print Name of the shop
- (DOMINOS) here

SOURCE CODE

Invoice Generator

```
# modules used : pyfiglet , prettytable and  
datetime
```

```
#importing pyfiglet module for bill header / ASCII  
ART
```

```
import pyfiglet  
txt = pyfiglet.figlet_format("Dominos")  
print(txt)
```

```
#importing datetime module for time and date  
import datetime  
date = datetime.datetime.now()
```

```
#getting name of customer  
name = input("Name of Customer : ")  
assert name.isalpha()
```


#printing menu using prettytable module

```
print('-'*40,'Menu','-'*40)
from prettytable import PrettyTable
menu = PrettyTable(['S.no','Items','Cost'])
menu.add_rows([
    ['1','Margherita','Rs.75/-'],
    ['2','Double cheese Margherita','Rs.130/-'],
    ['3','Pepper','Rs.175/-'],
    ['4','Cheese & Barbeque Chicken','Rs.130/-'],
    ['5','Veg Extravaganza','Rs.210/-'],
    ['6','Meatza','Rs.245/-'],
    ['7','Veg singles','Rs.170/-'],
    ['8','Chochlate lava cake','Rs.160/-']
])
print(menu)
print('-'*85)
```

#basic info about entering prices based on
algorhythm of this code

```
print(" ##ENTER PRICE OF ITEM AND ENTER  
ZERO (0) TO QUIT##")
```

```
print(" ##IF YOU WANT AN ITEM WHOSE  
QUANTITY IS (n) ENTER IT'S PRICE (n) TIMES## ")
```

```
Sum = 0
```

```
total_items = 0
```

```
while(True):
```

```
    userinput = int(input("Enter the price: "))
```

```
    if(userinput != 0):
```

```
        Sum = (Sum + userinput)
```

```
        total_items = total_items + 1
```

```
    else:
```

```
        break
```

#calculating GST(Goods Service Tax)

```
GST = float(input("Enter the GST amount (%): "))
```

```
gst = (Sum * GST) / 100
```

```
amount = Sum + gst
```

#finally, printing receipt

```
print("          INVOICE")
print("Name :",name)
print("Date :",date)
print("GST (%) :",GST)
print("GST Amount:",gst)
print("Original price without GST(tax):",Sum)
print("The Net Amount To Be Paid is:",amount)
print("The total number of item purchase
:",total_items)
```

#printing INVOICE/BILL using prettytable module

```
print('-'*40,'INVOICE','-'*40)
from prettytable import PrettyTable
invoice = PrettyTable(['Name','date','Total
items','Total Amount(Rs./-)'])
invoice.add_rows([
[name,date,total_items,amount]
])
```

```
print(invoice)
```

```
print('-'*85)
```

```
print("    Thanks for shopping with us !!!")
```

```
print("  visit us again , have a great day !!!")
```

SNAPSHOTS

- **Validation**

- Exiting from program if end user entered any digit or any special character as name

```
| _ \ _ _ _ _ _ _ _ _ _ ( _ ) _ _ _ _ _ _ _ _ _  
| | | | / _ \ | ' _ ` _ \ | | ' _ \ / _ \ |  
| | | | ( _ ) | | | | | | | | | | | | | | ( _ ) \ _ \  
| _ _ _ / _ \ _ _ _ / | | | | | | | | | | | | | | \ _ _ _ / | _ _ _ /
```

Name of Customer : *25atulpipe*r

Traceback (most recent call last):

File "[C:\Users\programmer Atul\PycharmP](#)

assert name.isalpha()

AssertionError

- Exiting from program if end user entered Alphabet or any special character as price

```
##ENTER PRICE OF ITEM AND ENTER ZERO (0) TO QUIT##
```

```
##IF YOU WANT AN ITEM WHOSE QUANTITY IS (n) ENTER IT'S PRICE (n) TIMES##
```

Enter the price: *chapman*

Traceback (most recent call last):

File "[C:\Users\programmer Atul\PycharmProjects\question number 01\main.](#)

userinput = int(input("Enter the price: "))

ValueError: invalid literal for int() with base 10: 'chapman'

Process finished with exit code 1

Final Output of Program

[illegible]

Name of Customer : *atulpiper*

Menu			
S.no	Items	Cost	
1	Margherita	Rs.75/-	
2	Double cheese Margherita	Rs.130/-	
3	Pepper	Rs.175/-	
4	Cheese & Barbeque Chicken	Rs.130/-	
5	Veg Extravaganza	Rs.210/-	
6	Meatza	Rs.245/-	
7	Veg singles	Rs.170/-	
8	Chochlate lava cake	Rs.160/-	

```
##ENTER PRICE OF ITEM  AND ENTER ZERO (0) TO QUIT##
```

```
##IF YOU WANT AN ITEM WHOSE QUANTITY IS (n) ENTER IT'S PRICE (n) TIMES##
```

Enter the price: 75

Enter the price: 75

Enter the price: 75

Enter the price: 160

Enter the price: 0

Enter the GST amount (%): 2

INVOICE

Name : atulpiper

Date : 2021-02-21 11:35:32.551670

GST (%): 2.0

GST Amount: 7.7

Original price without GST(tax): 385

Original price without GST(tax): 385

The Net Amount To Be Paid is: 392.7

The total number of item purchase : 4

----- INVOICE -----			
+-----+-----+-----+-----+			
Name	date	Total items	Total Amount(Rs./-)
+-----+-----+-----+-----+			
atulper	2021-02-21 11:35:32.551670	4	392.7
+-----+-----+-----+-----+			

Thanks for shopping with us !!!
visit us again , have a great day !!!

Process finished with exit code 0

here on 2021-02-21 at 11:33 a customer named
atulper bought total 04 items which where
Margherita (3 quantity) and chochlate lava cake
.(01 quantity) for Rs.392/- including GST Tax

Bibliography

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- https://www.canva.com/en_in/
- <https://pypi.org/project/pyfiglet/0.7/>
- <https://pypi.org/project/prettytable/>
- <https://www.the-qrcode-generator.com/>



Scan Qr code to get source code readily.