30b

February 14, 2023

[ ]:
```
 Write a program to accept percentage from the user and display the grade␣
 ↪according to the following
criteria:
Marks
Grade
>90 A
>80 and <=90 B
>=60 and <=80 C
below 60 d
```

[6]:
```
sub1 = int(input('Enter the English marks:  '))
sub2 = int(input('Enter the Hindi marks:  '))
sub3 = int(input('Enter the Marathi marks:  '))
sub4 = int(input('Enter the Maths marks:  '))
sub5 = int(input('Enter the Science marks:  '))
marks = sub1+sub2+sub3+sub4+sub5
print('total marks', marks)
percentage = (marks/500)*100
print(percentage)
if percentage>90:
    print('Your grade is A')
elif percentage>80 and percentage<=90:
    print('Your grade is b')
elif percentage >=60 and percentage<=80:

    print('Your grade is c')
elif percentage <60:
    print('your grade is d')
else:
    print('All the best')
```

```
Enter the English marks:   89
Enter the Hindi marks:   90
Enter the Marathi marks:   90
Enter the Maths marks:   90
Enter the Science marks:   78
```

```
total marks 437
87.4
Your grade is b
```

[ ]:
```
Write a program to accept the cost price of a bike and display the road tax to␣
 ↪be paid according to the
following criteria:

Tax  Cost Price(Rs)
15%  >100000
10%  >50000 and <=100000
5%  <=50000
```

[2]:
```
bike_price = int(input('Enter the price of bike'))
#print(bike_price)
if bike_price > 100000:
     print(f'Your bike price is {bike_price} and you have to pay 15% which is␣
 ↪{(15/100)*bike_price}tax on it so the  price become',round((115/
 ↪100)*bike_price))
elif bike_price > 50000 and bike_price <=100000:
     print(f'Your bike price is {bike_price} and you have to pay 10% which is␣
 ↪{(10/100)*bike_price}tax on it so the  price become',round((110/
 ↪100)*bike_price))
elif bike_price <= 50000:
     print(f'Your bike price is {bike_price} and you have to pay 5%  which is␣
 ↪{(5/100)*bike_price}tax on it so the  price become',round((105/
 ↪100)*bike_price))
else:
     print('Thansk for using this portal')
```

```
Enter the price of bike 149000

Your bike price is 149000 and you have to pay 15% 22350.0tax on it so the  price
become 171350
```

[ ]:
```
Accept any city from the user and display monuments of that city.
City   Monument
Delhi  Red Fort
Agra   Taj Mahal
Jaipur Jal Mahal
```

[5]:
```
city_name = input('Please Enter the city name u want to visit: ')

if city_name == 'Delhi':
    print('You have enter the best city in india u can visit to Red Fort in␣
 ↪Delhi')
elif city_name == 'Agra':
```

```
    print('You have enter the best city in india u can visit to Taj Mahal in␣
 ↪Agra')
elif city_name == 'Jaipur':
    print('You have enter the best city in india u can visit to Jal Mahal in␣
 ↪Jaipur')
else:
    print('Have a nice trip')
```

```
Please Enter the city name u want to visit:  Agra
You have enter the best city in india u can visit to Taj Mahal in Agra
```

0.1 Why and When to Use while Loop in Python give a detailed description with example

[8]:
```
# While loop can be used to run the block of code until certain condition is␣
 ↪met.
x = 1
while x < 5:
    print(x)
    x = x + 1
else:
    print('Done')
```

```
1
2
3
4
Done
```

[ ]:
```
Use nested while loop to print 3 different pattern.
```

[9]:
```
i=1
while i<=3:
    j=1
    while j<=i:
        print(j,end=" ")
        j=j+1
    print("")
    i=i+1
```

```
1
1 2
1 2 3
```

[ ]:
```
Reverse a while loop to display numbers from 10 to 1.
```

[10]:
```
i = 10
while i > 0:
    print(i)
    i = i - 1
```

```
10
9
8
7
6
5
4
3
2
1
```

[ ]:
```

```